

JC675 U.S. PTO
09/394745
09/15/99

<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-026-Q1-E1-D12

<400> 6891

cccacgcgtc cgcggacgcg tgggcgcca acgcggcaac tgcccaccgt ccggctcgcc 60
ggagccgtac gtggcgaccg gtggagctgg agtgcgcgga gaagggatct cagggtatct 120
gccacttcca cggaagcgga tcgtgaaagg gaggaggagg atgtcgccga cgattactat 180
tccgttctgg gtgtgatgcc agatgcaacc actgaggaaa ttaagaaggc atactacagt 240
tgcataaagg agtgccaccc tgaccttagt ggggaccacc ctgacgtgac aaacttctgc 300
atgttcatca acgaagtta ctcggtgctg agcgatccag cacaacgtgc agtgtatgat 360
gagatccatg ggtacacagc aacagcaatc aacct 395

<210> 6892
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-026-Q1-E1-A1

<400> 6892

accacgcgt cgcggcacgc gtccggcaca aaacacatca ccgcatcttt ttccttccga 60
gctgtacgta tctgcagaga gagagagaga gagagagaga gagagaaaga ttaggtcaga 120
gaccatgaag caccgcgggc cgacggagca ggatgtgtcg ctggcgctgt cgctgagcac 180
ggactcgtcc acgacgacgt ccgactcggc ggggacgcca ccggcgaagc gggcgcgggc 240
gcaggcgcggt tggcgggggt ccgtgggtggc cacgtcgggg gagggcgagt ccgtctgcag 300
gacctgcagc cgcgcc 316

<210> 6893
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-026-Q1-E1-A10

<400> 6893

agccacgcgt tccgccacg cgtccgcaca ggcagcagct agcatccctc actctcggtg 60

cctgacctga ccacgagagc aacatgggcg gaggacacga catgcacggg cagcactacg 120
 ggcacaacgg cggcgtgaag ggcttcgtgt ccaacctcgt ccacggcggc ggcggccatg 180
 gccatggaag cggctacggc catggccatg gaaacggcta cggccatggg aatggcggct 240
 acggcggcgg ccacgggtac cctcctcccg ccgcggcggg cgcgtaccct caccgcacg 300
 gcgcctaccc gcccgccacc taccgcgcg actcggcgca ctacgggcac acggggtcgt 360
 accacaccag ccacaacagc tacggcggcg gcggcgccca ccacggcatc tac 413

<210> 6894
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-026-Q1-E1-A11

<400> 6894

agggcaaccg cgtccggccg tccgcttcg tctccttga taaccacgac gcccgccggc 60
 aagcgaaagc gaagcgagcc aaccagcca tggagaaggc gatcgatcgg cagcgggtcc 120
 tcctggcgca cctcctcccc tccccctcg ccgcctctc gcagcctcag cttgcggcgt 180
 cggcgtgcg gcgcggggac agcgcgcct accagaggtc ctctccttc ggggacgatg 240
 tcgtcgtcgt cgctgcctac aggacgccga tatgcaaggc caagcgagga ggcttcaagg 300
 acacctaccc agaggacctc ctactgttg ttctcaaggc tgttctggac aactagaa 360
 tcaatccagc tgacatcggg gacatcgtcg ttggggaccg tgctcggccc tggttcc 417

<210> 6895
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-026-Q1-E1-A12

<400> 6895

ggttacggtc aggggcccc ggctcgacct aagcgtcagc ggacgcgtgg gcggacgcgt 60
 gggcgcaagg gtttgtttca tcatatgaca ctgctcatca atacagtac agtgaagaag 120
 atgcacataa gtgggtcagt caccgaaacc atcgaggga catctgcgga gttgatttca 180
 tatggctttt aaatcctgac aagtgcagga agccctgaa gaccagctgg aatgaagctg 240

tttttggat cattaagtac ttctccaag ttgttgcat ctttccgag gagaatgcat 300
 ttgactcct gaaggcagac agcctttatg atcacatcac atattcaagt ttctaccagg 360
 cattgtgtca gttaggaatg gtccatcctg atagactaag atcagaagaa attgaggagt 420
 tgtggattga acctgaccg 439

<210> 6896
 <211> 212
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-026-Q1-E1-A3
 <400> 6896

gcgtccgggg ttatcgcgcc gccgccgccg ccgccgccgc agccgcaaca atgccgtcgc 60
 acaagacctt ccgatcaag aagaagctgg cgaaaaaaga tgccccagaa ccgccccatc 120
 ccctactggg atccgcatgc cactgacaa taccatcagg tacaacgcca agcgcaggca 180
 ctggcgccgc accaagctcg gcttctgagc gt 212

<210> 6897
 <211> 417
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-026-Q1-E1-A4
 <400> 6897

cgggccaagc cagccttga cggaaccttg gccaacttgt tccattgatc cttgaaaaat 60
 tcaacctcct ttgcacaac aaggccaagg atttcttgca actgcggttc aacctgcggc 120
 tgcggtcaa gctgcaagtg cggcaagaag taccctgacc tggaggagac gagcaccgcc 180
 gcgcaagcca ccgtcgtcct cggcgtggcc ccggagaaga aggccgcgcc cgagttcgtc 240
 gaggccgcgg cggagtccgg cgaggccgcc cacggctgca gctgcggttg caactgcaag 300
 tgcgaccctt gcaactgctg attacaccga tcgacgacca tggatatgat tattatctat 360
 ctagcttggtg gtggtggttg aacaataata agcgaagccg agctggctgc catacat 417

<210> 6898
 <211> 110

<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-026-Q1-E1-A6

<400> 6898

acggacgcgt gggcgtagac ttcgtagtca ccgcgttcgc atcccagca cgcaaccatg 60
gctcgactgt cagccaccgc cgcgctctc ctctcgtcc tggctctcct 110

<210> 6899
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-026-Q1-E1-A8

<400> 6899

cccacgcgtc cgcccacgcg tccgacttct tcagtgccgt gtttttcggg atccatatgc 60
ttagaacaga acaaatatca aggagtacgg acaagaagaa attttttagct cttcttggt 120
tcgaggctct tgtggttgct ttctcctcgc ttctctggtt tatgttcaaa gatggctacg 180
ttgataccag cggatccagc tttgaatctt ggacgttcgg gatgctctgg gataccacag 240
tttcgtttcc ttggatacca gcattgtaca ctggagttct ttctacggtg ttatgcatgt 300
gggcagagat ggtggcgatg ggcgatgtt cagcaaccga aactgcagtt gtttacgggt 360
tggagccagt ttggggagct gcttttgctt ggttctcctc tggtgaaaga tgggatgacg 420
ctgcat 426

<210> 6900
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-026-Q1-E1-A9

<400> 6900

caaccaaacc cgcacgacac gacaccaagt cgaggagctc gagggcacca atcatggccg 60
gcgtgaactc cagcgtcgtc gggctcaagc ccgccgcggc agtgccgcag gccgccgcg 120
cctcategcc ggcgaagcgg gtgcagctgg ccgcgcccga gggccgcgcg gccgctctgc 180
tcggcctggc ggccgtcttc gccgtcacgg ccaccaccgg gtcggccaag gccacgatct 240

tcgatgagta cctcgagaag agcaaggcca acaaggagct gaacgacaag aagaggctgg 300
ccaccagtgg cgccaacttt gcgcgcgcct acaccgtgga gttcggcagc tgccagttcc 360
cctacaactt cactgggtgc caggacctcg ccaa 394

<210> 6901
<211> 257
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB189-026-Q1-E1-B1
<400> 6901

agtaatttgc tatttttcct cgttctttgt ttttgtactt attgagaatt gatgcctcgg 60
attctctgat gtatgtatga ttgggctcag gctcagggca ctttgccatc cctattttgt 120
catttcggtt cttccttagc gtggaacgta atgagtgtga gaaagtaaaa ttggtgaaag 180
tgaaaatggg aactgagagc aaaanaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa aaaaaga 257

<210> 6902
<211> 339
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-026-Q1-E1-B10
<400> 6902

tctgcaagtc tcgctacgta gcagtgcaat aaaaaaagca gccgcaatgg cgagcagcac 60
catggccctc tcctccacgg ctttcgccgg caaggccgtg aacgtgccgt cgtcgtccgc 120
cttcggcgag gcccgctga cgatgcgcaa gacggcggcg aaggccaagc cagcggcggc 180
gtccgggagc ccgtggtacg gccccgaccg cgtgctgtac ctgggcccac tgtccggcga 240
gccgccgagc tacctgacgg gcgagttccc gggcgactac ggctgggaca ccgcgggggt 300
gtcggcggac ccggagacgt tcgccaagaa ccggggagct 339

<210> 6903
<211> 382
<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-026-Q1-E1-B11

<400> 6903

agcccacgcg tccgcccacg cgtccgactg caccggcatg ttccggggct gcgccaccga 60
ggacgggttc atggaggctg gcatctggga gtgagctgga ggccccgcca tctaaacaca 120
aatcaaaatc agtgtgcgtg cagctgcatg tggccatcct gcgattgcca tgtgtttaat 180
ctccgggtca caggtgttgt cgatgatcca ccactagtag tagcgattgc atggagattg 240
gtgctcgggt caataatgat ggtgattgtg acggagtgcc ctgcaaaata attaataatt 300
cgtgtgaaaa agttgattaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360
aaaaaaaaaa aaagagcggc cg 382

<210> 6904

<211> 480

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-026-Q1-E1-B2

<400> 6904

cgctggcagg tacgggtcaa gaatacccg gccaaccaac cttcgagtt ctcgccaac 60
ccggaatctt ccaaaacaac cgggtgtccc caaattcccc ggcgggcaaa accaacttcg 120
caacccccat tcaaaacaat tccttttgca accccaacgg tcctccaaaa aattaaccaa 180
aatgttttgg aaaaggatcc ccatagataa acttgatcaa agctgcaact attgaaaaaa 240
atatccccca gatctactac taacaagcgc aagaagagaa catcaccaaa agttggtcgt 300
cttagagcaa actggaatag tggactagaa aagggttttag ttgaaattct tcaagatcac 360
aacaatgatt gttataaggg tcaaaatggg tggtaaccg aaacaatgga taaaattgtc 420
aagttattcc atgagaaatt tcctatgtca catttacaaa atgccaaatc caagataaag 480

<210> 6905

<211> 260

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB189-026-Q1-E1-B3

<400> 6905

ggtcgagcac gcgtccacga ggaggcccgg ccttctttcc cttcccccc cccggcggac 60
ccaaaaaggc cattcgggtc ccccggaaga accccccgc cttggcccaa cggaagcctt 120
cccggcaact tcgngctttg atccctgggg cctccgattt gaccccgaga gcctgcggtg 180
gaacgtgcag gcggagctgg tgcaactgcc gtgggcgatg ctgggcgcgg cgggcatctt 240
catcccgag ttctgacca 260

<210> 6906

<211> 417

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB189-026-Q1-E1-B4

<400> 6906

gggccaaccc acgcttcgag caaattcccc aacaaaatt taaccaattc ccacaaaaca 60
agccttaaag gtcggcgaac ccaaaaatgc gcccaaaac gacatccgga aaacaaggcg 120
cctccggggc ctttaagggtc actttgcggt aaaccgcta gaaacaatca aaacgcgcat 180
gcaaagcccc gactacaata aactatacac aaatggcgcc gacgaaaag tcagccggtc 240
gaagtctcgc ggggtataac aaggaattgg aagtgtact ctggcgacat tgccttcttc 300
aggagcattc ttcacgacgt acgaaggagt gaaatctatc ctgaaagaca aaantctaaa 360
tctggcaatg gacacttgct tcgtcaacag tcattcactc agttgcctct gcaaccg 417

<210> 6907

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-H8

<400> 6907

gacccacgcy tacgagctct catggacatc tccctcccct gtttccctcc atgggtgtctg 60
ctctcctctt ccagacatg gctggcgctt ctctctccct ggagctctct cgactgcgcc 120
atctccagct tctcgccagg gacgcgcgca aatccctcaa gcttccctcc atggcgctcc 180

caatttcaag cgctcggagc tccagctcaa ccgaccgccc ggcaccaatg cgcgccctcag 240
gctcctcgcg gcctcgctgg gcgggatctc cctccagctc caatccccctc taccgcgccc 300
ctctgcttgc cgcgaaacgcg cgccgcccgc ct 332

<210> 6908
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-G10

<400> 6908

cacccacgct agcgaacctg gcgacctggg cggagaagac acatgcctcc cttcctccgc 60
caetggctga gcctcgctcg gagcatctgg ctgcagaccg tcaaacggcc gaacgcccgc 120
ttccccgtgt actcgtccca gctcaaagag ctgaagcaca tcacgcaggt gcagctcaac 180
ttcctggcgt tcgcgtcgga cgcgggcaag ctcttcgggt ggttctccgg ggtggcgggc 240
ctgtacctgc cgctgtggct cgtggccttc gtcggcgccg cgttcggcct cgtcggctac 300
ggggtcacgt acctgttcct ggacagcgcc ggctcgggt actggcacct gttcctgctc 360

<210> 6909
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-G11

<400> 6909

agccaacacc ttccggccaag cctccgaaat tttaagaaga tgatacaaac caagggcaat 60
tccaatgcat ccaatgtggc aaaagcaagg tttgttgcaa aggaaacttc ctccaatggg 120
ttaaatttgg attctggcaa tccggtaaac cccgttataa ccaacaattt ttggagaact 180
caatgaagca aaattgccca atctgttaag agtatctatt tgactcatta caaggaacaa 240
gagttcttaa ctgtggacac acaatgcact tgacatgttt tgaagaaatg gtggcgcata 300
acaaatacac ttgtccaata tgctctaaaa cagctcttga tttgacacat cattgggaaa 360
tgttggatca agagatcgaa gccacgatca tgc 393

<210> 6910

<211> 162
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-G12

<400> 6910

gagaataaat ttggaacaga agcccgcat tgtaaagttt catgcccttt gtgctaaaaa 60
gaatgggagg gacggtttag tgttacttgt gggaaacttt aaccctaaca aaggattggg 120
tgatgtatta atagattgag ttagttgggt ctgacatata ca 162

<210> 6911
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-G2

<400> 6911

aggttctttc agctcggcca caaacaggat catcactgcc aaggaccatg cctctgtcca 60
gatcaacatt ggccacttgg atgcgaatgg cctgtatgat ggtcacttca caacatttgc 120
tctctctggg tttgtccgtg ctcagggcga tgcagacagc tccttggaca ggctgtggca 180
gaagaagaag gctgatatca agcagtagat ttacatcta gttaccaag aattggacac 240
tgccttagct atgttttgaa ttcattgtcac tatatgcaat gttgtgattt cagctggtag 300
cttaaatctg aagatttagt atctttgttg ggttccttct gagtttgatg tgtggtgttc 360
gtttaattcc cctgtacaac ccaatttagt accattgtga atattttgga ttc 413

<210> 6912
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-G3

<400> 6912

agaaaatcaa gatctcccgg gaggtttttt gacctagttt atcatgaaaa tgcccgtgtt 60
ctactgcatg atgagagcat ataccgattt gaatgttgct caagtccgac aaggttgtct 120
attcagctga tggaatatgg tcacgaaaag ccagaagtta ccgcagtatc aattgatcca 180

aatttttctt cgtatctttt tggcgagtat ttatgtagta cgtcagacaa gaaattatct 240
gaaggcgtct aacttgcaag gaataagcgg aaataatcag ataatgatga accttcagat 300
ttttttgaag gaatggatgg tatcaaagtt gtgaatggtc tcgaatgcaa gatatactgc 360
a 361

<210> 6913
<211> 263
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-025-Q1-E1-G7
<400> 6913

agatcgctgt catggaaacg acgtcatgct tctgacctc caaagcatcg tccgccagca 60
ggagcacggc ggtgctgccg cccaccgccc cgggcttcgc aaagcctaaa ccttgtctgc 120
aactccttgg caacaaccgc cgccgtgcct gctgcgggag catcagcgcg cgggggggcg 180
ccgaggacag cgccgcgcca acgcccacgc gtcccgaatg gggctcgttt cgcgcgcaac 240
tctaattcaa ggagcaactg ccg 263

<210> 6914
<211> 371
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB189-025-Q1-E1-G9
<400> 6914

agcttgatc atatcatata naacaagaat cccaccacg cagttgcact ggcacgatta 60
acaaccact gcatgtcaag ttctgaaga acatgttacg ggtggtcctc aataacttgg 120
gccccaacct ctcctcccc ggcaacgccc ggcttgctcc caagacaacc cctgagaagt 180
acaggccccg gcgcgcgaga tccggccggt cactgcctg ctggccctgc tcttgccgc 240
tgcagtcgcc aagctgcgtc gcgtgggccc gcccaaggac gtgtacctg tggagtacgg 300
ctgcttcggg cccaagccct ggttccgggc gcctttcgcg acgtgcctgg agcacgcgca 360
cctgatgccg t 371

<210> 6915
<211> 356
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-025-Q1-E1-H1

<400> 6915

agaggacccc accaaggtgg accgcagcgg cgcctacgtg gccaggcagg ccgccaagag 60
catcgtggcc agcggcctcg cccgccgctg cctcgtgcag gtgtcgtacg ccatcggtgt 120
gccggagccc ctgtccgtgt tcgtcgactc gtacggcacc ggcacgatcc ccgacaagga 180
gacctcaag atcgtgaagg agaacttcga cttcaggccc gggatgatca gcatcaacct 240
cgacctgaag aagggcggca acaggttcat caagaccgcc gcttacggcc atttcggccg 300
tgacgacgcc gacttcacct gngaggtggt gaagcccctc aagttcgaca aggcatt 356

<210> 6916
<211> 284
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-H10

<400> 6916

cgggctcgag ccacgcgtca ggtgaggag cgaggtttgt tgggacgtcc gtgggggcat 60
caaaacaagc acgattccta gtcctggaaa gttaaaacca ggcattccatt cgatcgtcgt 120
cgacggtctt agtaatagct acttattttg cagtgggcga tgaaagaatg gtgtcatgta 180
aatgtagctc cagtcgtgtc gcattctttg atttgttggt tcagcagcac cggatgtaca 240
agtactgagt ttgggctagc aagaataagt aatctttttc ggcc 284

<210> 6917
<211> 76
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-H11

<400> 6917

tcctccggcg gatcgtcgcc gctgtaccag ttccgcgctg agctctccgt ggacgtcagc 60

tccgtccacg tcgaca

76

<210> 6918
<211> 155
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-H12

<400> 6918

tcattctactt tcgcctctct gccatctctc tcttcgccgt cggcgctccac atttacctcg 60
gctagctagt cgccggcggg cgcccggtg agcgaggcta gctgctggcg cgccggcgcc 120
cgcccggtt ttatttgaca tcattctgggt ggctg 155

<210> 6919
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-H3

<400> 6919

agcggacgcg tgggcgcggc tcaacttccc cgaggagatc ccctcgttcg ggctggcgga 60
tggcgtggac gtgggggagc acgcgcgcga cccggccgcc gccgccgccc gcggcgccgg 120
cggctgcacg ctgtccgcgg cgtccatacg gaagaaggcc atcgagggtg ggtcccgct 180
ggacgcgctc cagaccggca tgggtgtccc gccgccgac caccgcgagc gccataggca 240
ccacaaccac ctgccgcagc tgcgggtgca cgcggaggag cagcaggagg aagaggagca 300
gaagccgcag cggcctgcgt ggagcgggcg cgtcaagaac ccggatctga accgtgcgcc 360
gagccc 366

<210> 6920
<211> 201
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-H4

<400> 6920

ccggccaacc tcagggaag gttcaggcca accaatccgg tcgcagaaga aaaattggta 60

aaaggtggta acataagttt aaacccccca aaaataacca accaacggtt ggatggaaca 120
 acccaaaagc aataacccaa ggtaaccaa cggtacaatt ccaaaaacca cccaattcaa 180
 ctggccttaa cccaaatcc t 201

<210> 6921
 <211> 188
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-H6

<400> 6921

accgaattcc ctgcgaatcc tctcccctcg cctcctcgtc tccccctaag ggattctccg 60
 agaagaatcc ccaaaaaggc cctctcaacc caatttaagg aaccctggag ccaaaagaag 120

cttggttcca agccccccaa ggaaccaacc tccggaacca aaaacggggg ctccttcgga 180
 accccggg 188

<210> 6922
 <211> 362
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB189-025-Q1-E1-G1

<400> 6922

agcccacgcy tccgcccacy cgtccgcyga cgcgtgggtt ttttttaac atgacatggc 60
 ttatgtaact ggcaagccaa gctgctgctg gtacagggaa cttcaaagg aaggaaaaat 120
 attgcctggc aatggcaatg gcagtcaccc gacctggcaa gaatggaaga tgatgatggg 180
 gctatggaca aataatttac ctattccttg tgttcgctc tactgacagc aatcaatcga 240
 tcatttacag tgtgtgtttg tgtagattaa ccttggacac gacaatacct tgtttttggt 300
 cctatccttc ctcaacaaca acanannaac aaaacaatga aagaaatgaa tcttgccgcc 360
 ac 362

<210> 6923
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-E2

<400> 6923

acgggtcatg tatatcatgg taccatctgt cccaatgtgt aaagtagtat gcttactatt 60
ttttattcgg ttcaggttgc agtcatgaat tctgcatcaa atgtgctctc tacctctgct 120
caaccagcaa catccgtgtc gagttcacag gccacactgg gtccatcccg tgcctctttt 180
gtcggaaacgg cataatgtct ttcaccaagt taccaagcac accaacagaa gggcttaaatt 240
caggttcagc gctcacattc tgcaacccat gcatactgaa cacccggtcc atggactcgc 300
cagccacttt ctccaaagcc gaaatcagac ggaaccgtgt ggcagctgtc tcttcggagc 360
tggtctgtcc aatcaactgg aaccaattc ccgtcgtccg cctcccaac ctgcaggtgc 420
agcgac 426

<210> 6924

<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-E3

<400> 6924

agccaacgcg tccgcccacg cgtccgagga tagatataag cgtcataggc actacgacta 60
ccatgacgag ctatagatcc tgtattcttt tgaaatctgc acgatattgg atgtctgtct 120
acggagagcg cacgtgcaaa acttgatgtg tgtactcacg gatgaagctg aacctgtgat 180
tttggcgatg ggtagagatt ggccatcgcg tctgtaacta aatttccacg ttgcgatgca 240
atatgagctg tagtactgtc ctgcg 265

<210> 6925

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-E9

<400> 6925

agctcgatcg caacgcgctt ggcattggcg ccgaggtgtg gctatcgccg gcgtctcgcc 60
tcccatcct ctccaacgca ccacctcgct tacgtccaa gcctgccacc acaaccgct 120

ctttgctctc tccctgtccc cgcctgtccc gcgcctgcc tgtgctgctg gtccgtcgcc 180
gccgccgact tcgcgccaac gagcagcaag gccaggttca ggagcaagat gacgaggtgg 240
tggacaggaa catcctcccc tactgcagca tcgacaggaa gcagaagaag acgctgggag 300
agatggagca ggagttcctg caagccctcc aggccttcta ctatgaccag aaggccatca 360
tgtccaacga ggagtttcga c 381

<210> 6926
<211> 344
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-025-Q1-E1-F1

<400> 6926
gtgctctgct tcttcggttt tcaggagcgt cggccattgc tgctggaaaa gcagaccatt 60
gggactccct cgtgcgtttt ccaaatacgt cagggtgatg gcgatggagg gaccagtttt 120
atgccgccct gcaatgcaag ccaaatacgc tgctgctgct ctggtcaaca actccctgac 180
cagattcggg cagcttgga ccatttcaaa atacaggaac gtttcaagat tcatttctcc 240
catctctcag ccattctacga agaatacagg tccatgctgt agcttcagct cgtcttctga 300
tggcaatgga tacatggctg gaaacttttag cgacagtgat gaag 344

<210> 6927
<211> 99
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-025-Q1-E1-F11

<400> 6927
agggccaaagc tcccggaatg ataacaggca cctggctagt accagaaacc tttgaatgac 60
atacattcac atctaattgtg gacacatata tcaaaggat 99

<210> 6928
<211> 147
<212> DNA
<213> Zea mays
<223> unsure at all n locations

<223> Clone ID: LIB189-025-Q1-E1-F12

<400> 6928

agcggacgcg tgggcgctgg aagcccgggt ctgggggttg gttggggaaa gcccttttaa 60
aactgtgttg gtcaacttgc aattttaacc tttccaatcg ccgtttattg tgagttggtc 120
ctatannaaa naannanann nnnanaa 147

<210> 6929

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-F2

<400> 6929

acggtggcga gccccgagag cgggtttagt tagaggctac gggcggtcgg gcgcggcggc 60
ggcggcggcc atgagcagcg ggagcgagag cactaccgcc agcaggtggc ccgagctggc 120
cacgtgcgc gcgctggcgc gcgacccgc ggagcagctt cggctgccgc gggccggcac 180
gtcggcgctcg gcgtcgctcg cgtggcgcg ggcgaggac cacctccacg gccacggcaa 240
gacggccaag gtgatgcacc tgctgctctg gggacccaag tgaagcggcg agaggccacc 300
gttacgccgg gctctcccgc tggcgttgct cgttttgctc tgcct 345

<210> 6930

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-F3

<400> 6930

ggtactagtt aaaccatttt acacactccg ctctactccc ggaagagacg atggcgagg 60
cgacgccgac gatggtgttc gtctacggca ccctaaagcg cgggttcctt aaccactcgc 120
tcctcgtggc ctccgccacc cccttcgtgg gagccgcac cacggccgag ccagcctccc 180
tcatcatcgg ccctactcgc gtacccttcc tcctccccac tcccgcctcc gcctcctcgc 240
gtcgcgtcgt ctcgggcgag ctctacgcc catccccgc cgcgctcgcc gagctcgacg 300
ccct 304

<210> 6931
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-E12

<400> 6931

```

agcccaagcg tcggcggacc cgtggggccg gcggccacgg gcacggcaag gaggcccccg 60
tgcttctgca gcagcccgcc gccgccgccg ccccgggccc cgtggaggtc ctgaagctgc 120
gcgtgtcgga ggtgggagac cgcgtgctgg tggatgaact gacgtgcagc aagggccgag 180
acgccatggc ccgcgtgtgc cgcgccgctg aggagctccg gctccgctc atcaccgcca 240
gcgtcacctc cgtcgccggc tgcctcatgc acaccatctt cgtcgagggtg gattcggacc 300
agacgaatcg tatccagatc aagcacatga tcgaggccgc tctcgcccag ctagatgatg 360
cctccgcgag cccgccgagc gtgatgaact actattagaa tcggacaacc gtc 413

```

<210> 6932
 <211> 362
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-D1

<400> 6932

```

ggaaacccta gccgccatat ctcacgatcc actcgagcac caagccgagg gaaggtgagg 60
agcgatggcg cgcggcgtgg tgctggcgaa gggcggcgag gtcgcgggca agaagaaggg 120
gtcggtttcc ttcacgatcg actgcaccaa gccagtggag gacaagatca tggaggtcgc 180
ctcgcctcag aagttcctgc aggagcgcac caaggtcgcc ggcggcaagg ctggcaacct 240
cggcgactcc gtcaccatct ctcgcgagaa gaccaaggct accgtcacct ctgacggacc 300
cttctccaag aggtacctga agtacttgac caagaagtac ttgaagaagc acaacgtgcc 360
gg 362

```

<210> 6933
 <211> 387
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-D10

<400> 6933

agacctgaag aaactccgac cggccggtgg gcggtggcgg cacggcagga tctgtgcccc 60
aatggcaacg tcaaacacgg cgcggtatgga ggacggcggc ggccacctgc ggacacatca 120
agaagtggaa tatcatctac cctgtctacc tcaaactcca agaagacggg ccccgagggc 180
ccccgcatcc ccgctgccaa agcctgcccc ggaccccacc tgcacgaga tcgctgactg 240
ctgttcgcac ctcaagatcc ccacgccatc gagttggata aggcgtaccc tcgggatttc 300
ttccagggtg ggagggtcag ggtgcagctt aagaaagatg acggctcccc cgtcaatcct 360
gctattaaaa cgaagaagca gctgatg 387

<210> 6934

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-D12

<400> 6934

gaccacgcg tcagatctat tatgtcggtg ttttccggtta cttcggggtc ttgtcaaaac 60
ctgtcgtacc cctgggtgttt ggaacctatt aaattatgca taaacgggtt caatatcaat 120
ttcaatgagg ccttctcctc gctgcgcata gcaaactata aggcattcac acggctccac 180
atcaagaaaa acggagacct tgaggctctc accctggctg tggacaagggt gccaaaggat 240
tggatgctgg attcagactg ggacatggaa cccaagcagc cattccagat gagctacacc 300
aggaaattcc caagcaaagtg gagggctgcg tcgggccttg acccaatcaa tgctgtgcgc 360
attgttgacc ggtttgtcat cccgccaacg ccctcaagtc ctacaacacc aggaggctct 420
g 421

<210> 6935

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-D2

<400> 6935

agccccacgcg tccgaataag acgacttggt tcattgattc ttgaagagat cgagcttctt 60
 ttgcaccaca aggtcgagga tgtcttgcaa ctgcggatca agctgcggct gcgggtcaag 120
 ctgcaagtgc ggcaagaagt accctgacct ggaggagacg agcaccgcgcg cgcaggccac 180
 cgtcgtcttc ggctgggccc cggagaagaa ggccgcgccc gagttcgtcg aggcgcgggc 240
 ggagtccggc gagggcgcgc acggtgcag ctgcgggtggc aactgcaagt gcgacccctg 300
 caactgctga tcacatcgat cgacgacct ggatatgatt attatctatc tagcttgtgg 360
 tgggtggtga acaattatta gcgaaggcca acctggctgc catacatagg tattgtgtgg 420
 tgtgtgt 427

<210> 6936
 <211> 381
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-025-Q1-E1-D9
 <400> 6936

agtggacaac atgatcttcg taaaatacac cctaactctgt atgtaattca gactacttat 60
 cagatacgac gcatgcacac aattactagg gatccctcca cagcagcaca ttatttcata 120
 ttttatgccg atcggttgat tcgattgggt gtcgaacatg gtcctgggtca tcactcttct 180
 cagtaaaagc aggtcatcac tccgactggg tctgtttaca ctggtgtgga cttctccaaa 240
 aggttgtgtg gtatctcact gattacgagt ggcgaaagta tggagaatgc actacgtgca 300
 tgctgtaaac gtatacagat tgggaagatt cttattcatc cggaagggtga caatggacaa 360
 cagctcatct atcataattt a 381

<210> 6937
 <211> 130
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-025-Q1-E1-E10
 <400> 6937

gtacggtcta gaattcacgg gctcgagcac gcgtcaggcc ggactcgccg cccgcgccgg 60
 agctctgcaa cccgcgcgag ccgcatcaac gttcctccaa agtctctagc cggggccacc 120

gccaccgccc

130

<210> 6938
<211> 408
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-025-Q1-E1-E11

<400> 6938

agtggaagt tgccttttga agatgcatca gttggtgcgg ttcttgcaagt cattaaaaac 60
gtggaaagct tgagggagca attggttgct gaaatcaggc ggggtgctgaa agctggtgga 120
agagtattgg tgcagagccc tgcaccctca tccagtcaga agcccaacac tgatattgag 180
cgcaagttac tgatgggtgg atttgctgaa gtgcaatctt ctgctgcaag ctgcgaggat 240
agcgtgcaat ctgttacagt taaggcaaag aaggctagct ggagcatggg ctcttctttt 300
ccccttaaga aaacaacaaa agcccttccc aagattcaaa ttgacgacga ctctgatctg 360
attgatgaag acagtctctt gactgangag gacctgaaga aacacaac 408

<210> 6939
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-B1

<400> 6939

cggaacgcgtg ggccgcgcca aggacatcct cgtcgtcgtc tccggcctcc tcttcggctt 60
cggctgcggc gccctcaccg ccgcgtccat gtacctcgta tggtcgctcc tcgcctccac 120
ctgcgcctcc ggatacgacg acgacgtcta cagcgacgac gaggaccggc tgtccgactc 180
cgagagcccc aagaaggccg gctacgtcat catccacgac gctgacgagt acggcgccgg 240
taagaactag ggctggggat ccgtcttcgg tctcgccggg gggtcagcag aaggattttc 300
gtaataacat ttgcatgatt gcttgggaatt gtgcagtata ctctatgcac ctttttaatc 360
atgtgtgtcc ccgtccgttg ggaaggtaag tcttctgggg gaaaggaaat ttaggttata 420
tgaa 424

<210> 6940
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-B10

<400> 6940

agggagcagc tgctgttcaa gggcaaccg ggccccaaga agctgctcaa gatgaaaaag 60
gggaaaccgt tcatcccga tttcaaactg gcgttcgagc aattctgcat ccaagccggg 120
gggcgttccg tgctggacga actggagaac aacctggcgc tcaaggattg ggaaatggaa 180
ccctcccga tgaagctgga acggttccg aaaaagtcca gcagctcgct ctggtacgag 240
ctggcctaca gcgaggccaa tgggaggatc cggcgccgcc accgggtgtg gcagatcgcg 300
ttcgggtcag ggttcaagtg caacagcgcc gtgtggaggg cgctccggtc ggtgaaccg 360
gcggaggaga cgaaccctg gatggacgag atcgacaggt ttcccgtgga tgttc 415

<210> 6941
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-B11

<400> 6941

aggatcgatc ggtcgaggcg ggtaggacag gttcaaaagg tacctaccaa gggcggagga 60
accttcggcc cctccggggg gaacggaacc cccccggga aaaatgccaa tgggtgaagg 120
ggccaacaaa accaaccaaa ctttcaagcc cctcaattgg caatggaaca acttcttccc 180
cccgggcaac cgcaacagta ccgcctcgtc atcgtcaccg caaagcgcac cgccgcctcc 240
gcggtcggac tcacgggacc aggcacctcg gatgtgctgc cgtacgtgga ggcggatctc 300
aagcgctccg ccctgcgcgt cgtcgaaaaa tccaaagcct ctgcacacag gcgagcgacg 360
ctgt 364

<210> 6942
<211> 398
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB189-025-Q1-E1-B12

<400> 6942

agccgcttcc cgctccgacg gacctgctcc ctctccacca ccgaacccca agggggccag 60
cctcaccgga cgacccaaat tccccgagtt caaagaaggc ctcaacctcc tccacaaaga 120
acggggaatg gttcctcaag aacaaaggat ctggggcact gtcgatgcga ccctggggca 180
aaatcctaca gaagctgagc tcaaggacat gatcaaagat gtcgatgcta atggcaacgg 240
caccatcgat ttcccagagt ttctcaacct tatggctcgc aagatgaacg acaccgactc 300
tgangaagag ctcaacgagg ccttccgtgt gtttgacaag gaccagaacg gcttcatctc 360
ggacgccgag ctccgccatg tcatgacaaa tcttggtg 398

<210> 6943

<211> 358

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB189-025-Q1-E1-B2

<400> 6943

agcttcgtca tacagaagtt tatctccttt aagagatcct gatatccttg gaagaaactt 60
gccaggacca acatcccta ttcttcgac atcaagtcgc aggatcgag cattgaacac 120
atccaatggt cggatgaaca tgtegtgcc tgtctctccc tgctctagcc cgctacggca 180
gtacaggcag tccaaccgaa gttgcttgcg ctcccctcnc caccagcct attcagctgg 240
agcagccaac tacaatcta tcaacaatgc actctacca acgcgacca gcagcggctt 300
cacagatcca tggtcgaata tctctcaggt gaaaacgcaa acttttgatt ctccaaga 358

<210> 6944

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-B3

<400> 6944

aggacgcaga ttatgtttga aaccttcgaa tgcccagcaa tgtatggtgc tatccaggct 60
gttctttcgt tgtacgctaa tgggcgaaca actggtattg tgatggattc cggatggtg 120

gtagccaca cggttccaat ctatgaagga tacacacttc ctcatgctat tctccgtttg 180
gatcttgccg ggcgtgacct caccgaccac ctaatgaaga tcctcacaga gagagggtac 240
tccctcacta cgagcgctga gcgggagatt gtcagggaca taaaggagaa gcttgccctac 300
gttgcccttg attatgaaca ggagctggag actgccagga gcagctcctc tgctcgagaag 360
agct 364

<210> 6945
<211> 433
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB189-025-Q1-E1-B4

<400> 6945
aggcaccgaca cgacaccaag tcgaggagct cgagggcacc aatcatggcc ggcgtgaact 60
ccagcgctcgt cgggctcaag cccgcgcgcg cagtgccgca ggccgcgcgc gcctcatcgc 120
cggcgaagcg ggtgcagctg gccgcgcccc agggccgcgc cgccgctctg ctcggcctgg 180
cggccgtctt cgccgtcacg gccaccaccg ggctcgccaa ggccacgac ttcgatgagt 240
acctcgagaa gagcaaggcc aacaaggagc tgaacgacaa gaagaggctg gccaccagt 300
gcgccaactt tgcgcgcgcc tacaccgtgg agttcggcag ctgccagttc ccctacaact 360
tcaactgggtg ccagggactc gccanccaga agaaagtccc ttcacagcg acgacctcga 420
gattgagtgc gag 433

<210> 6946
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-B9

<400> 6946
agtataaggt gaagctccaa agtcgttcct aaggggatgc agagcttaaa gactccaatg 60
acgtccctaa ggggatgcag agtcttggtt gttccagtgt gggcgtgtgt gtgtgtgtgt 120
tcggcgtcac catcatattg tatcatatca tcgcatcatt ccacataaca ttatgtaaca 180

ccctaaagtt cactcttggtg aaaatgagga aaattctcca atcaaacc tttccttgag 240
aatattcata atttcaaagt tgctactcca aaaattaaca taattttgtt ttaaactaaa 300
ataaaagata cctaaataaa ctaaattacc cttagagtga aattataaga attatgatta 360
aactatttct taatatataa tctacaatat aaattatatt cc 402

<210> 6947
<211> 107
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-025-Q1-E1-C1
<400> 6947

acgcgtcagt gaacgattcc atctagatgt tgatggcgtg gtcacaaaa atggtaagtt 60

ttgcttcata catctcttac tatttggaat ctcaacaaat cccctct 107

<210> 6948
<211> 379
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-025-Q1-E1-C10
<400> 6948

aggttcgata ataataaaag gccgggaacc caaccggcaa aaaacccttc aatccttgga 60
aattaaaaaa aaacacaaat tataaaacaa aaaaacaaac aagaaaaagg catttgga 120
tggttgctaatg aaggatggca ttactataa taatatcgaa gttgagatta ttagcattta 180
ctaataagac tgcatttttt tcattactga acttgatata tacatgactt ttctctatc 240
tgaagctcga cgtaatctgc tcgaccaacg gagcagaagc atgggttcag aagctcaagt 300
aagttttttt ttgcgaccta ttcccttccc tcccttctc tggcaggatt tcaacgatgc 360
atctggattg ctctgttttc 379

<210> 6949
<211> 405
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-025-Q1-E1-C11

<400> 6949

agcaaccttt ccggtttcca accacattta aaattggtaa aaaggcaatc cccactcttg 60
aagggaatgg gtacataata aattcaaaaa tttcctttgg caaagttgca acaacaaatg 120
cccaagaact gttagacttg aaacaaagac caaaaactgg gcctcaattg ggccaagaaa 180
taaagaagca agcaaagaa gctcgtgatt ctacaatatc aatgccgtac agaatacaga 240
gaattgaaga tttttagga caacttgaga caggagatct gaaacttaag gtcagagtac 300
tggagtcaga acgtgctgca cgtaaagcta ctgttcttca gatggccacc atgtatacag 360
ccttgggtgg tactctcttg aatgttgggg tcacactgaa tagtc 405

<210> 6950

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-C12

<400> 6950

agcggaccct tgggggcaac ccacaggatt ggcaaaacaa aggaaacctc aattgcgaac 60
tccaatttg gccgtccaac ggccaatcc aaaacggaac ccctttgccg tctaaccac 120
cggccaaatt acaacaactg gccaggttc aaggaggacc tcgttaatcc cccgggtccac 180
cccggacca atttcagggc accagtggac ccctactaaa aaaggaagag gatgaggatg 240
ttttcttgag gagctatact agctcgtgac tgctttttgt tacaatgttt gtacggtcgc 300
aataaatgta tggtcgtggt tgctcgagag ctactcaggt gattttgtcg tgggagcacc 360
aaaagcagaa aagaactggt ttttt 385

<210> 6951

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-C5

<400> 6951

cccggctcga cccacacgta cgatgaatta tagacaattc tattagcttt ctaaaaagtc 60
taggatcgcc tgatttgat ttctgaaact ccagttatgg atttttgaag taagtagtcg 120

aattctgtcc aaatctggac ataattaaag tttagcactg tttgacctt taaactgtcg 180
aatctcatta tgatgataat accaaagttg tagaggactt tataagcttt ccaaaaagtc 240
ttagtttact atttttggat gcatattttg tgagttatga ataaaacaat tgactactgt 300
gctgctgtcc agaaaatctg cacacgttaa actgattact tagaatcatt cttgcttggc 360
tagata 366

<210> 6952
<211> 410
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-025-Q1-E1-A9
<400> 6952

gaggtatgct acctacaaa accctcacgg atccctggca tttcgatcgc ctcaactctgt 60
accccgagcg agttgcagtt ggatctcaga tcggtgatca cataaacaat ggtgaaagct 120
gttgctgtgc ttggtagcag cgaaggtgtc aagggcacca tcttcttcac ccaagagggga 180
gatggcccta ccaactgtcac tggaagtgtc tctggcctca agcctggcct ccatgggttc 240
catgtgcatg cacttggtga caccaccaat ggctgcatgt caactggacc aactacaat 300
cctgcgagca aggaacatgg agcaccagaa gatgagaacc gccatgccgg tgatcttgga 360
aatgtgacag ctggagcaga cggtgttgca aacattaatg ttaccgacag 410

<210> 6953
<211> 437
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB189-024-Q1-E1-H3
<400> 6953

aggccccagc tcaccaagtc gaactccaac ctctcgaaac aggcgctcaa tggcctcctc 60
tcggacaaga aggacgtggt tagctcgaag gcaaaatcaa ccagcgctag gtcgacgccg 120
tcttccccga ccagcgccca ttctctgect gcgtcgttcg ataaattctc gagtgacatg 180
aaacagagag tgagaaccaa aggagcagag aaatcgccgc cgtcaagggt gtcccttgca 240
aaaaaaggct gcgtctgtgt tgaaaggcac tacggcaggg gaagaagtcc tccctgggta 300

attccattag taacaccttg ttgagcttcg aatctggggc caaggccttg agaagaagct 360
 gggaagggaa agcagatgcg aaggacanag gcaattcgga ttcaaagcct gccaaagctg 420
 aaaagaagtc tgaaaat 437

<210> 6954
 <211> 448
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB189-024-Q1-E1-H4
 <400> 6954

acgcgtcagc ggaagcgtgg gctggcttct cctccccctc ttaccaagtc ctctcgggt 60
 tagggttcct tagggttttg tggaggggcg atggcggcgg ctgatgtgga gtaccgttgc 120
 ttcgtcggcg ggcttgcttg ggccaccagc aacgagtcgc tggagaatgc ctctgcctcc 180
 tacggcgaga tctctgactc caaggtcatc accgaccggg agacggggag gtcccgcggc 240
 ttcggtctcg ttaccttctc ctccgagAAC tccatgctcg acgctatcga gaacatgaac 300
 ggcaaggagc tcgacggccg taacatcacc gttaaccang gccagtcctc gtggcgggtg 360
 cgggtggccgc ggtggctacg gcggcggctg cggcggcggc ggcggttatg gtggcgggcg 420
 ccgtgacggc ggttatggcc gcggtggc 448

<210> 6955
 <211> 330
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-024-Q1-E1-H5
 <400> 6955

agccaaaagg catcaccgcc gcgacgacga tggcagcctc gctccaagcc gcggccaccc 60
 tgatgcagcc ggccaagatc ggcgccggg cgccctttgc ctgctgccc tcccggccgt 120
 cgtcgcaact cgctgcagg gcgttcggcg tcgacgccgg cgccgccagg atcacgtgct 180
 ccctgcagga cgtcgccagc aggtgcgtcg acgccgcgaa gctcgccggc ttcgctctcg 240
 ccacctcggc gctcctcgtc tcgggcgcga gcgcggaggg cagccccaag aggctgacct 300

acgacgagat tcagagcaaa acgtacatgg

330

<210> 6956

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-H6

<400> 6956

agcccacgcg tccgcccacg cgtccgcccac gcggtccggc cgccactagg ctaggagtgg 60

aagcctcggg cccgcggcag tagccatggc ggcgttcctg gcgcctccct gcacttcctt 120

ctatcgctcg tccgcattcc ttacccccctg ttctcgaat cgccggagta cagtgctaag 180

ggcggcgggc gttcgtgggt cagcggtgac gccggcccag cggacgggtc ccgctagggtg 240

gggtccaccc aggtcagcgg tggcgacgcc ggcgggccagg aaagcgtgcc tagacgagcc 300

tgatacc 307

<210> 6957

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-H8

<400> 6957

gtcagcgcac gcgtcggcaa aaagcacgct ttggatttgc atgacaaatc aagcttcaga 60

tgtacactcc ccaatgttgg ggacctttca cagcacagac ggtaattaac cgaatttcac 120

gtcgactgt tcacgtcatt gctctacctc acgatggcct actgcactca tcgcgtaaaa 180

ctgagatgcg tcagcttggc aaaggtgtac ttgcgacgga cttcagggag ctcagtgtgt 240

aaatgcttat gcaaggtacc atgatcaggc tgcccagcaa ggcacaattg ttagagtttc 300

atg 303

<210> 6958

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-H9

<400> 6958

agcggacgcg tgggcgaaaa gcaggctttg ggtttgggga caaaatcagg gttcagatta 60
ccctcgtcta ttttggggag ctttcacacc aaacacggtg attaagcaag tttcttgtgg 120
agctgttcat gtcattggctc tatccgagga tgggtctactg caagcatggg gctacaatga 180
gtatggtcag cttggcagag gtcgcacttc tcaaggactt cagggagctc gtgtgttaaa 240
tgcttatgca aggttccttg atgacgcccc cgagcaagtg aagattgtta gagtgtcatg 300
tggagagtac catacagcag ctatatctga aaatggggag gtgtatactt ggggactggg 360
aagcatgggg cagcttgggc attgctccct cca 393

<210> 6959

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-A10

<400> 6959

agcatcagca gcttctgctt gctctggggg gaaggagaga gagagagagc gagagagaga 60
tctagtagag aggctagtag gtggtcctcg aacgaagatg ttggcgggtg tcagcgggca 120
gggtggtggag gtgccggcgg agctgggtggc ggcgggcagc cggacgccgt cgccaagac 180
gaaggcgctc cagctgggtg ggcgcttcct ggccgcgtcc gagccggccg tgtccgtgca 240
gctcggcgac cacggccacc tcgcctactc ccacaccaac caggcgctcc tccgccccag 300
gtcgttcgag gcccaaggac aggtgttctg cctgttcgaa ggggtgctgg acaacctggg 360
tcgtctgagc cagcagcag ggctgtcaag caaaggcgcc aacgaggtgc 410

<210> 6960

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-A2

<400> 6960

gaccacgcg taagctcatc ccctccggt tcgggttcgg gttcgtgagg ttctccgggg 60
ttcgggttcg tgggtgagcg gatcgagatg gcggcgctcg atgttgagta ccgctgcttc 120

gtcggcggcc tcgcctgggc cacggacgac cactccctcc acaacgcctt cagcacctac 180
 ggcgagggtcc tcgagtccaa ggtccgttcc cgtcccagat ccgatccatgg ctctcgtccag 240
 atctgacctg tcttgacaca cctcaccgc gatctgtccc tcttccccct ctccccctgca 300
 gatcatcctc gatcgggaga cgcagaggtc tcgcggttc ggcttctgtca 350

<210> 6961
 <211> 432
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB189-025-Q1-E1-A4
 <400> 6961

agtggcgact ggatgctcgt cggcgacgtc ccttgaaga tgttcgtgga aacctgccag 60
 cgccttcgtc tgatgaaagg ttcagaggcc gtgaacttg caccaagagc cgcccgatga 120
 ggcacactcc gttgggcgtt ggcacgcacg cagcactgg cgtcttgaag gaaaggggga 180
 actctgctgg tcttgatgag gatcttcacg tgagatanga acgtgtgtac agttgtcccc 240
 ttatgggtatt gagttgagga aacttgaag ttccattact tgtctgtagt ctccacttta 300
 tatagatgcg ataagcttga gatacacatt gcctacaatg tcttttgatg aatangacca 360
 gacagcacgc aaccggaact cgcctccca caggggttgc ttgcatctt cggtgggttt 420
 gtgggtggtg tg 432

<210> 6962
 <211> 146
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-025-Q1-E1-A8
 <400> 6962

cgaccacac gtcagccac gcgtcagcca actcattatc ctacattttc tgggtataat 60
 ttctgtatca tgactgatcg gttcatgggt tcaatgccat ttgttctgga tacactcagt 120
 ggatgcttaa agctggttca ttgtt 146

<210> 6963
 <211> 372

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-024-Q1-E1-F8
 <400> 6963
 ccaagttgcg atcgggggac cgggtggaaa ccctttcttg gggcaacaga tgtcaagcca 60
 gaaggactac tctatggcaa cagcggatgt tgtggacgcc gacgtgaggg aactcgtggt 120
 gaaggcctac tctagagcaa ggcagataat caccacgcac atcgacatcc tccacaagct 180
 cgcttagctc ctgatcgaca aggagaccgt ggacggggag gagttcatga gcttgttcat 240
 tgacggccat gccgagctgt ttgtcgcttg agatgtcaca aggcttgagg tgcgtatgct 300
 tatcggtgta ttgtgtcaga gcgagcaatc acaaagcaat ggagagccca gcttgtagga 360
 accacatcga tg 372

<210> 6964
 <211> 380
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-024-Q1-E1-F9
 <400> 6964
 cggacgcgtg ggcgagtcac caccgaccca agcaaaaccg cacgcaccct gccagcggcc 60
 cccccaactc ccaacccaac ccctactcca gctagctcgc ggcggcggcc aacggccatg 120
 gcgttccggc tgagcaacaa cctgatcggg gtcctcaact tcgtcacctt cctgctctcc 180
 gtcccgatcc tgggcgcggg catctggctg ggccaccgag ccgacggcac cgagtgcgag 240
 cgctacctct cggcgcccgt catcgcgctg ggggccttcc tcctcgccgt ctccctggcg 300
 ggccctcgctg gcgcatgctg ccgcgtcacc tggctgctct gggcctacct cctcgccatg 360
 ttcgctcctca tcctcgctcct 380

<210> 6965
 <211> 425
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-024-Q1-E1-G1
 <400> 6965

cccacgcgtc cgctcataaa caatgcaggg atcatggcct gcccttacca gctgtccaag 60
 gatggaattg agctgcaatt cgcaacgaat catgttggcc atttcttgct gacaagtctc 120
 ctgctagaca agatgaaatc aactgctgca gagacaggtg tgcaggggaag gatcataaac 180
 gtatcatcgg tcgcgcataa aagaagtgat ggtacatgct ttgagctgaa caagctaaac 240
 gataaggcta ggtaccaacc gttcattgca tacgcgcatt cgaagttagc caatgttctc 300
 cacacaaatg agttatccag gcgttttcag gaagaaggat gcaatctgac agcgaattca 360
 ctgcatcctg gagtgatcgt cacaaataac aatcgccagg ttgctggaaa cagtgcgctg 420
 atttc 425

<210> 6966
 <211> 379
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-G10

<400> 6966

cggacgcgtg ggtaatatc tgcagtagtt tctcgagctc ctgtagcaag aaagaaacca 60
 tgtcgggggt atgggtgttc gaggacggga tcgtgcggcg tgcggacagc gacccgcccc 120
 gcggcgccgg cgccggcggg tcccggccga acaaggtgct ggtgcacgtt cccagcgggg 180
 aggtggtgac gtcgtatgac gtgctggagc ggcggctacg cgagctcggc tgggagcgct 240
 acctctacga cccctgtctg ctccagttcc accagcgtc caccgtgcac ctcatcaccg 300
 taccctgtga cttctccgc ctcaagctgg tccacatgta cgacgtcgtc gtcaagacct 360
 gaaacgtctt cgaggtccg 379

<210> 6967
 <211> 395
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB189-024-Q1-E1-G11

<400> 6967

cccacgcgtc cgggtggcgta taggagcaaa gttggtctct gatctttccc ctgcaaggga 60

aagagaagaa cagagacctc tgcccctctc gtcactctct ctctctctca caccaccagt 120
 gtagtatagg gtttcggctt gcctgtgcgt gttactgtcg caatggcagg aggtctcttc 180
 tccatggagc acccatgggc ctctgttttt ggcattctag gcaacatcat ctcatttctg 240
 gtgttctctg caccagtgcc gacgttcctc cgcgtgtacc ggaagaagtc gacggagggg 300
 ttcagctcgg tgccgtacgt ggtggctctg ttcagctgca cgctgtggat cctgtacgcg 360
 ctggtgaagn acaactccag cccgctgctg accat 395

<210> 6968
 <211> 154
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-G12

<400> 6968
 gttcttggtg taataacccc aagaacagca ctgcgtcttc atgcaccgct cgcatacagg 60
 cgagtccact ccttggctgt ttcaacagct tccacctcat tggatttcca atgctttgca 120
 atgttatcgg gtacaggggc atccggattt ggtg 154

<210> 6969
 <211> 352
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-G3

<400> 6969
 caggcgacgg cgagatgtgc tcgagctcgc ttattagcgc agagctgaag aaggtccaga 60
 ctgccaccat taatttcgac aactccctca gcccgcgca cacgctgggc cagatcatat 120
 gcgccgacca gaaggggctc atctacgaca tactgaggac gatgaaggac tgcaacatcc 180
 agatatttta cgggcggttc agatcggaca agaaagggcg gccaggcagc aaaggctgcc 240
 gagaggttga cctgttcgtg aaacaagtgg acggcaaaaa ggttacggat cctgagaagc 300
 acgacgctct gcgggcgcgc ctgagattcg agatgctcca cccgctcagg gt 352

<210> 6970
 <211> 354
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-G5

<400> 6970

ggagtcttcg acgacgtcaa tagcatgatg cagcaacaac agcagcaggc accacccgtg 60
gtgcagcagc agcagcagca gcagttcttc atccgcgacg acacgccatt catgagccag 120
atgggcgaca tcaccagcac ggcggagttc aggttcggct ctggtttcaa catgtctagc 180
accgccgccg ctgattaccc aggcgcggcg cagaagaacg acggggccaa ttggttctac 240
tgaagaataa aacttgtagg gctcctcggt ataagcttcg gattcctcca tggctctccc 300
aagttgtcaa gtcttatagg tcttcgttat ataggttttg cagtagctgc aaga 354

<210> 6971

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-G6

<400> 6971

agcccacgcg tccgcccacg cgtccgcca cgcgtccgca ggaaccgagt ctatgggttc 60
ctctcgtttt cttccgcca agagcttgag gaagcgtaa agctcgacag aacgggtcttc 120
ttcggacggg atatcgtagt gaaggaagcc catgtagagc gccagacgcg ctgagccgct 180
gagtgttacc cttgagaact gcactttttt tgtctgctc gttgactgac taagctcatg 240
ctccaggcac aagctacaca gctgacgaag aagcaattga gcggttcac gcgaaagagt 300
taaaaaaaaa aacggtagtg taaattagta ccattgctgc aactttgtca gcgccgccgt 360
ggatgctggt gtgagaaatt ctaggacgaa ctgagaactg gtattgtagt ggtaatacat 420
gttgtttta 429

<210> 6972

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-G7

<400> 6972

ccgccccgcg cccgaggacg acgacaggga ggagggcgag atcaccgaca tcgcctgcgc 60
tccttccccg cccgccacgc acccgctcga gcaactcctgg accttctggt tcgacaaccc 120
gcagagcaag tccaagcagg ccgcctgggg gagctccatc cgcccaatac acaccttctc 180
catcgctcga gaattctggg ggctttacaa gaacattaat caccctagca aattgatcgt 240
gggagctgat ttccattgct tcaagaacaa gatcgagcca caatgggaag accctatttg 300
tgccaatggt ggtaaagga acatcagctg tggaagagga aaatctgata cgttctggct 360
gcacactctg ctggctatga ttggtgaaca attccactag ggtgatgaaa tt 412

<210> 6973
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-G9

<400> 6973

agtagagaca accgctgcgt aaacgaatcc atcgccatgg cgtctcgtct cgttgcgggc 60
gcggcctcct cctcctcct ctcctcagcg tccccctcg ctgcctaata ctctcgccgc 120
ggccttgccg gtgccgcaga cggccatggg tctgccaagg tgcccttggtg gaaagatccg 180
ttgagcccgga gcaagtggaa ggaagagcac tttgttctag caagcctctc aatgtggggg 240
gttatttttt atggtgggta caagcttttt agtggaagaa aggaagccaa gactgagggc 300
gcatcaccac aggcataagg ggccggagatg gagttatacc cgtatctgtg gcctggcaac 360
aatgttaaat aaa 373

<210> 6974
<211> 374
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-024-Q1-E1-H10

<400> 6974

gttcattgtg aagctgaggt gagtatatag gcataaagag agcatgaaca ctgttagtgg 60
tacaaagcgt gcaccaagga gacagtcgca agatgggtct ggtgataaac tagtggtgat 120
cgtggaagca agtccccggg ggggtggggag ccgtcgtgga ccacatgccc ctattcctgg 180

cgccctaaac tcaccattg atgtggaggc catcgaagat gaagttcagg cagtatctcc 240
 ttccgcgagt ccctgccat gtattctgca naggaggaac aggagaacca ggaggggaacc 300
 tataacagt gttgacttgg aggttgaagc tagccgggaa gggagcaaaa ccagaggggt 360
 tgaaccatta ggac 374

<210> 6975
 <211> 370
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-024-Q1-E1-F5
 <400> 6975

aggggagaag atgaccaga ttatgttoga gactttcaat gttcctgcca tgtacgttgc 60
 aattcaagca gtgctgtcac tctatgccag tggacgtact actggtattg ttctcgactc 120
 tggatgatgg gtgagtcaca ctgtgcccatt ttatgaagga tatgcccttc cccatgccat 180
 tcttcgtctg gatcttgctg gtcgggacct cacagactcc ctcataaaaa ttctcactga 240
 gaggggttat tccttcacaa cctctgccga gcgagaaatt gtgagggaca tcaaggagaa 300
 gcttgcatat atagctcttg actatgagca agagttggag actgccaaga acagctcctc 360
 agttgagaag 370

<210> 6976
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-024-Q1-E1-D7
 <400> 6976

cggacgcgtg ggcggacgcg tgggttctcc tccaccgtcg gagctccggc ctccaccccg 60
 accaggagca gtttctcgg gaagaagctc aacaagccgc aggtgtccgc ggccgtgacc 120
 tagcatggca agagctccag cagcaacagc aggttcaagg cgatggctgc caaggaggtg 180
 gacgagacga agcagaccga cgaggacagg tggaatggcc tggcctacga catctcggac 240
 gaccagcagg acatcaccag gggcaagggc ctcgtcgaca acctcttcca ggccgctatg 300
 ggggacggca cccacgtcgc cgtgctcagc tctacgact acatcagcca ctgcaaaaag 360

ttctacagac tccaccaaca ttatggatgg gcttcaacat agccaagggc ttcattggaca 420
agctcgtcgt cca 433

<210> 6977
<211> 369
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-024-Q1-E1-D8

<400> 6977

ctccctccgc cactcccatc catctcctcg ctcccagtc cccggaagct acgaagcatg 60
gcgctcgtca cgcgccgcgc cccggctcgc gcccttcgcc cgtcgtcggc cttccttggc 120

cactctagcc gcctcggccg caccgcgtcg cccacgaggc gcagcctcaa ggcggaggcc 180
aaggcgaggt ggctccccgc cttccctcn cctcctacc tcgacggcag cctggcgggg 240
gacaatggct tcgaccggtt gggcctggcg gaggaccccg agaacctgcg gtgggttcgtg 300
caggcggagc tgggtgaacgg ccggtgggcc atgcttggcg tggccgggat gctcatcccg 360
gaggtgctg 369

<210> 6978
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-D9

<400> 6978

aaaaacactc aagggatctt tgttttagagg atggagacct aaatctgacc gaccttcatt 60
ggtggataaa tatgcagaaa aagaggagac cttcacctaa aaaacaaaga tatatgttga 120
aatggttctt tttaaaagat tgcaacgtga tccgggtgtc agagattcag aaggtcttgg 180
acatcgccga cgagcgtagc ctcatcgaca ccatcttctt ctgctacctc ggggtgcaatg 240
caagctaagg tggtcgacaa tgggtgttcgc ggcggcgaac tcgcagcgca gccaggtgat 300
gaagccatcg cgctcgtcga cgagccaggc gacggggtcg gccacggcgg tgccgggggc 360
cggcgaggcg atgacggcgg ccggtggaggc catcgccgtg cg 402

<210> 6979
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-E10

<400> 6979

agcccacgcg tccgcccacg cgtccgctga tcattcttga ctaggaaaaa atactgatta 60
 ttcagaatta cagaattacg cctccttata ttttactgag atctccgagc tactgaggag 120
 attaccaagg gttatattgt tgatgcttaa aacaaatgac tgtttacgtg cagtcagtca 180
 tgccctgggt gggggcagtt ccttggagtc gtttatgatt attggacggg tatcttctga 240
 agctgtgctg gatgctaaaa ggatgaacag gaggtccttt ctcatgggat tgaagatatg 300
 gctggaggaa gccctgctgg aagctcgatt ctttactttg aagctgatgc taagtgttat 360
 gcaacttaag aagttgttgc ctggctaaaa g 391

<210> 6980
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-E2

<400> 6980

agctccctct ccgaaatcaa ggtagcgtac accgctgcag tttctagagc cctctctgcc 60
 actcgtgatc ccactagtca caatgcctgc cctcgccaag cccgcctccc gcaccgccaa 120
 gcccgccgcg gctccgaagc cgaagcctgc cgccgccaag ccgaaggcgg ccaccgctgg 180
 tgccctccac ccgccttact tcgagatgat caaggaggct atcacggcgc tcaaggagag 240
 gaccggctcc agctcgcaag cgatcgccaa gtatgtgggg ggacaagcac ggcgcgctctc 300
 tgccggccaa cttcaaagaa gatgctttcc atccagctcc gtgggtccgc agccaagggc 360
 aagctcgtga aggtcaaggc ttcgtacagg ctctcggacg ccgccaagaa ggatccccca 420
 agacc 425

<210> 6981
 <211> 146
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-E4

<400> 6981

gcgtcaaacg tattgcaggc ctagacgttg aatcggatac cggagcccac cgtccagggt 60
ccgccccacc ggccgctgtc taccgatttc gccgacgaca acaagcccgc cggattggcc 120
aagctgaccc ccgcgagcga gtatcc 146

<210> 6982

<211> 248

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-E6

<400> 6982

tggaattaat aggaactgct tacacaattt ggttcatcgc acggtatctc cttttcaagg 60
aaagcagaga tgacctgttt gcaaagttcg aagatctcaa acagaggatt atttgatcta 120
tcgtcgacct tttgccacgt gtttaggctt tacagccagc ttattattag gtttttttcc 180
ccctttcggt tgaatattac tggatggggt aagaaggcca tgtatctaaa ttgtctctcc 240
agggcttg 248

<210> 6983

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-E7

<400> 6983

ggggctctat ccagttactt ctgaaagggt tcagtgagag aggggcgaaa aaaatccgtg 60
tgcacatcct tactgatgga cgtgatgttt tggatggaag cagtattggt ttcgtggaga 120
ccctagagaa tgatcttttg gagcttagag cgaagggtgt tgatgcacaa attgcatctg 180
gtgggtggaag gatgtatgtt acgatggacc gttatgagaa tgactgggat gtgggttaaac 240
gtggttggga tgcccaagt cttggagaag caccctacaa attcaaaagt gcacttgagg 300
ctgtgaaaac actgagagca cagcccaaag ccaatgatca gtacttgccc cca 353

<210> 6984
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-E9

<400> 6984

agggtgggcgc gtccaagaag tacgagggca gctccaacct ggtggacctc cgctaccaca 60
tgggccccgt cctctccgcc gcgcgcgtcc gcctctacgt gctctggtac ggccgatggg 120
accccgcgca ccagggtcccc gtccgcgact tctctctctc cctctccgac acgtccctgc 180
cgcgccccctc cgtcgccgac tgggtgggcca ccgcgcgct ctacgccgac cagaccctcg 240
ccaacgtcac ctgcccgcgtc gacctggccg gggaagccgc cgacgagtcg gcctcgctgg 300
gccgctcgct ctcccggtc gacatccagc gcgtgctcgc ctctgcggtc gccgcggggc 360
ggctccctgc cgacaccgc gccggggcct ac 392

<210> 6985
<211> 234
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-F12

<400> 6985

ggaatgcccgc ctcgaccac gcatcaggtt cttggtgtaa taacccaag aacagcactg 60
cgcacccgcg cttggttgac attcatcaca ttgaaattca tggcagtggg cagaaattaa 120
attgcatcag aatcccagag gactgtcgca ttgctttgta ttgattaaac agtcggtttc 180
ccattgtctg taacagttct gactcgggtg ttcgtccccg gggaaggccc ccga 234

<210> 6986
<211> 213
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-F2

<400> 6986

agggagtcaa cggaactgtt gcccatgaat tcatcattga tctaaggga ttaaggcga 60

ctgctggtat agagccggag gatgtggcaa agcgcttgat ggactacggg ttccacgcac 120
 cgaccatgtc atggcctggt cctggcacac ttatgattga accacctgaa agtgagagca 180
 aggccgagct ggacaggttc tgcgacgctc tta 213

<210> 6987
 <211> 383
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-024-Q1-E1-F3
 <400> 6987

gactagttct aagcatttcc ttatgctgca tatttagtgt aactcagtgc cttcattggc 60
 atatgttata cacatcatca tttcaaggtc cactactctg ttccctgtgc tggtttagat 120

ttgtagagca cataagtcaa ctgtcatatg cagcagtcac gttcaataag ctgtagctg 180
 tagcaggttg gttcctggac cagctagtat ttgcgaaacc aatgcccttt gcaactctgcc 240
 agaaaaacgg tgaaattcta tatccatatt ctaattttac tgaaaacctg gtgtgccatc 300
 attgctcata accttgtttg tcagttgtca cagtattggg tcacagaaaa tgtttgcaat 360
 aactatttgt ttgtattttt gtg 383

<210> 6988
 <211> 437
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-024-Q1-E1-F4
 <400> 6988

ctccacatta ggatgtatat attaatcatc ctattttaat atatattaat catcctattt 60
 taattagggt ctaatccaat tagtagtaag tattttcttt tttatttaat agtctctgac 120
 tatcattaaa taaagggtag agcaattctt ttttctagag attctagaga aagttagaca 180
 aagtgaagcg aaagagtttt ctttgataa gaattagggtc tatatcatat ctaaatagaa 240
 gggaaatcag aaagaaggga agtggggatt acattggatg aatccttaag gaagacatat 300
 cacactagaa ataaaggcta aagtatgcgc tccttgctt tggtttgagc aaaacagatt 360
 cttgtttcac cgaggaaaag agagaagttc tggataaatt gacaatgtca acttgaattg 420

actaattcag ttccgcc

437

<210> 6989

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-D6

<400> 6989

agcccacgcg tccggttctt tactcaagcg ttcattttat atgaagaaga aatcacggat 60

tcaaaggctc agatcactgc aattcacctg ataattggga cccttcagcg gatgaatata 120

tttggggtgg aaaatagaga caccctcact cacaagacaa caggggtactc agcaaaactt 180

ctcaagaagc ctgatcaatg ccgagcagtc tatgcgtgtt cacatctttt ttggactgat 240

gagcaagatg gtataatgga tgggtgaaagg gttctccttt gtttgaagcg tgccttgaga 300

atcgcacatg ctgctcaaca gatggctagc gctac 335

<210> 6990

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-C10

<400> 6990

agacgacttg tttcattgat tcttgaagag atcgagcttc ttttgcacca caaggtcgag 60

gatgtcttgc aactgcggat caagctgcgg ctgcggctca agctgcaagt gcggcaagaa 120

gtaccctgac ctggaggaga cgagcaccgc cgcgcaggcc accgtcgtec tcggcgtggc 180

cccggagaag aaggccgcgc ccgagttcgt cgaggccgcg gcggagtccg gcgaggccgc 240

ccacggctgc agctgcggtg gcaactgcaa gtgcgacccc tgcaactgct gatcacatcg 300

atcgacgacc atggatatga ttattatcta tctagcttgt ggtgggtggtt gaacaataat 360

aagcg 365

<210> 6991

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-C11

<400> 6991

gagaaagctc accctgatat tttcaacatc cttctccaaa tatttgagga tggacatttg 60
acagactcac agggctgcag ggtttccttc aaaaatacgt tgattgtcat gatttcgaat 120
gttggttcaa catcaatttc aaaaggaaga cagagcatag gtttcttgaa ggaagatacc 180
gagtcaggct cataacttcgc aatgaaatcc ttagtgatgg aagagctcaa ggcatttttc 240
cgtccagagt tgctcaatag aatcgacgag atggttgtgt tccgtcctct ggagaagact 300
cagatgctgg ccattcttga tatcatccta aaggaagtca agggccgact tttggccctc 360
gggatagggtt tggagggtgc tgatgcaatg aaggacctga tatgccaa 408

<210> 6992

<211> 129

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-C2

<400> 6992

acgcgtcaac ctaaactgcc ggatccgccg tgactcacat gatttcctcc atagtctccc 60
aagtcattgca ctctcagtga ccactatggt aaacctatct cggtcattccc caccgggatg 120
cagttcctc 129

<210> 6993

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-C3

<400> 6993

agtgatttgc agaaaagagt agagattaag acccctgac tcatagaaag gatgagagta 60
acatgtcgaa ttgcaagaga ggttttagat gcagctgctc gtgtaattaa accaggaatt 120
acaacagatg aaattgatag agtcgtccat gaagagacaa ttgctagagg tggataccca 180
tctccattga attactattt cttccccaag tcatgttgca cgtctgtcaa cgaagtcatt 240
tgccatggaa ttccagatgc caggaaactt gaggatggtg acattgtaaa tgttgatgta 300

actgtatact ataaagggtgt tcatgggtgat ttgaatgaga catattttgt tggaaatggt 360
 gatgaagctt ccaaacacct tgtacgttgg tcctatgagt gcttggagaa agctattgcg 420
 atagttaaac ctg 433

<210> 6994
 <211> 209
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-C4

<400> 6994

agtagagatt aagaccctg atgtcatata aaggatgaga gtaacatgtc gaattgcacg 60
 agaggtttta gatgcagctg ctctgttagg gaaccaggaa ttacaacaga tgaaattgag 120
 agagtcgtcc atgaagagac aattgctaga ggtggatacc catcgccatt gaattaccac 180
 ttcttcccca gggtcacgttg cacgtctgt 209

<210> 6995
 <211> 384
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-C5

<400> 6995

agcccacgcg tccgcggacg cgtgggtgaa atctcaaag gaagttaggc ccagggaatc 60
 ttgcagcttg gtgtgcaaag taagaggaca gtcctgtgtt ccaagcaggc tctctgtgtt 120
 gaacaaatgt gagattttgc agaaatatat gagatgcaag agtggctgct ttcccagcct 180
 tggaccagat caacctgctg aagttgttga cgaagctcca accagcttga atccaggagc 240
 atgcttatac atgcagatgg atgagcggct cacatgtgat ggtttcgcac atcatacccg 300
 ggcggtcttg tccatgcgcc tgagaagggg aatgaatgt gacactcata agacagcaga 360
 ggggtagttt tctctgaaaa actt 384

<210> 6996
 <211> 296
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-C7

<400> 6996

agggccaagc gcaaggaccg cctcgtggag cgcgccccct acgccccccc gtccccatcc 60
gaggaggcgg agatggcgaa gccggtctcc tggtcggggc tcggcgggcac ggacgccgag 120
cgcctcaaca tcgcgtgtg atttgatct cggttgctac ccaccggat cgaccggtgg 180
cgatttgatt ggctgggttc ctggcttcat ttgggtcttg ctggattggg gttggtatgg 240
acatcggaga ttgaggattg tatagatgta ctctgggtt ttttctctct ccctta 296

<210> 6997

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-C9

<400> 6997

atagcaccaa cgtgtatgct tacatctcaa taatcgctct aattgtttgc attccacctg 60
cattgatctt tgaagggccc aagctaagtc agcatggatt tagtgatgcc attgcaaaag 120
taggtttgac aaagtttgtc agtgacctat tcttggttgg actgttctac catctgtata 180
accagattgc taaaacacc ttggagcgag tggtctctct gacacatgct gtcggcaatg 240
tggtgaaacg tgtttttgtc attggtttct caatcatcgt ttttggcaac aaaattagca 300
cacaaactgg aattggcacg tccattgcc a tagctggtgt tgctatgtac tcttacatta 360
aggctaagat tgaagaggag aaaaggaaaa agagcgcattg actgct 406

<210> 6998

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-D12

<400> 6998

agaggccatc cattttgtca acctgcggac agctggaagg tctagtggaa acctggctat 60
gaactccgta ccgaaaccag cacttgggtc cgaaacatct tggaggaggg attttgctgt 120
gggggataag gatgctgtgg tcattgttga tcatgggtca agacgccaag aatccaatct 180

catgctaaat gactttgttg agatgttccg ggccaagact agctatagta ttgttgaggc 240
 tgctcatatg gagctagcgg agcctactat aaaggatgct tttgggaaaa gttttgcaac 300
 aaggagcatc acgagttatt gtcagtccat atttcctttc ccctggacga cactggaagc 360
 aagacattcc tgct 374

<210> 6999
 <211> 414
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-024-Q1-E1-D3
 <400> 6999

agcggacgcg tgggcggacg cgtgggcgga cgctggggc aaagctaagc acagagctag 60
 caagtgaccg accgagagca aacaggcaag gcaagatggt gcagcaacag caagccgcga 120
 aggaggtgat cccgctgctg acgccttaca agatggggca gttcgagctc tctcaccggg 180
 tgggtgctggc gccgctgacg aggtgccgct cctacggcaa cgtgccgcag ccacacgccg 240
 ccgtgtacta ctgcgagcgc gccaccaggg gtggcctgct catcgcgag gccacggggg 300
 tgtcggccac cgcgcaaggg ttcccggagt cccctggcaa tcgggacgca cgagcaggtc 360
 gaggcgtgga agcccatcgt cgacgcggtc accggcaagg gggccatctt cgtc 414

<210> 7000
 <211> 434
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-024-Q1-E1-D4
 <400> 7000

cccacgcgtc cgctgttttg cttttgtgtt gctgttaggt tcttgatag tttgatgaat 60
 gatactgtgc agcagcagca gcagtagtaa ttcatagtgg gcggtgtgat agcagcagtg 120
 agatcgagga gaggatggag gtgttcatcc acgaggacta cgtgaacaag cgcaacgagc 180
 tgaggaggga gcagaggcgc cgggaactgc agaggctgca ggtggagagc aaccccgacg 240
 cgtccaggga ggcgctggca agccgggaga gcccgaggac gccggcccag tgctgacgc 300
 cgaccggcgc gtcgccgtcc agcttcagat tcccgacttc gaggagcacg ctgcagtcgc 360

cgccgcgacg ggcggggcag gctgccgggt ggccgtccga gcatcgccgc ctctacgact 420
gcctcaagcc gtac 434

<210> 7001
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-D5

<400> 7001

gggcaagaag ccagaggact tcgccaagta ccaggcctac gagctgatcc atgccagatg 60
ggccatgctc ggtgccgctg gcgctgtcat cccagaggcc tgcaacaagt tcggcgctaa 120
ctgtggccct gaggtgtct ggttcaagac cggcgcgctg ctctggacg gcaacaccct 180
caactacttc ggcaacagca tccccatcaa cctggtggtg gccgtgatcg cggaggtcat 240
cctcgtcggc ggcgccgagt actaccgat caccaacgga ctggacctag aggacaagct 300
gcaccccggt gggcccttcg accccctggg cctggccagc gaccccgacc aggccgccat 360
cctcaagggtg aaaggagatt cataacgggc cggctggcca tgttccccat gttcgccttc 420
ttcatccagg cct 433

<210> 7002
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-B9

<400> 7002

agcgaatctc gggtttcctt agtagctgtc accctgtgaa tatgtcgtcg gcagggtgtga 60
tcgtcttggg gccaatcca gaagaccctg ccttcctgcc catctgcttc aatggcagcc 120
ggtcacagca ctgctcatct gggtcacaac tgcaggattc cattcttatt ttccttgctg 180
tgccgggtat gccacccatg cccatgagcg tgctgggatc tgagtccatt gcatctgtca 240
agctgcgcat ccagcagttc aaggggcttt gtggcgacga agcaaaggct tgtgtggat 300
gggcatgagc tggcaagaaa caactcccca gtcaaggatt atgggctggc cgagggaat 360
gttctgcac ttgttattcg actgtcagat ctccgtgtga ttaacattga 410

<210> 7003
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-A2

<400> 7003

cccaatcgtc cgttacaaga ggattggcac agcacggttt ggaaggtgtg cgtgtaagtc 60
atcacgctgg gcatgctggg gacgctgctg ctgggcctca acatgtcctg gagcgccatc 120
accgccgccc tgcgctcat cgtgctggac ttcaaggaca ctgccccctg cctggagaat 180
gtgtcgtacc cgctgctgct cttcttctgc agcatgttca tcaccgtgga cggcttcaac 240
aagaccggga tccccagcgc gttctgggac ttcattggagc cgtacgcgcg ggttcaaacg 300

cccaacggga acgccgttct cgcgctcttc atctctctgc tctccaacgt cgcgtccaac 360
gtgccgacgg tctgctcct gggcg 385

<210> 7004
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-A3

<400> 7004

acgcgtccgc ccaagcgtcc ggtgatcaga gtctgagcga atttttaatc aaatcgctct 60
aaaatgccac tttttggatt cagcctattc aaaaagtcg tcccgaggat ctgggcccaa 120
tcggacgacg acgacgaact gatcgaccct caggtaacta taagggaatc gtgcgcccct 180
cactgtgcct ctctcaaagc gaaactcgac gaatgcaacg cccgggtgaa ctcgagggtcc 240
gcgaccaccg aaacttgac cgaggagctt ttcgatttcg ttcattgcat cgaccattgc 300
gtctccaaat cgcttttctc taaactcaaa tgaaagaagg acgacggaac caccctttta 360
gcgtc 365

<210> 7005
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-A5

<400> 7005

agcccacgcg tccggctgct catggaccgc gtcgtggcct tcattgccgg ggccctgactt 60
gctctcttgt ggccttgtgg gcgcgacgca gtatcaggtc gcaattgaag attgaagttg 120
tggacttgtg ggcaagtttc tctcgctgaa tattggcttt gtctaaacaa aaagccttac 180
aaaaagcggg aaaagaagat gttgaagaac agataatccg gagaagtatg tgaaaattta 240
tgggctactt agcacagatt agaccgcttt gtgaaaggag ctgccagttt taaccaaaaa 300
ggggggggcg ttcaaa 316

<210> 7006

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-A6

<400> 7006

atccaggaca aggagggcat tccccagac cagcagcgtc tgatctttgc gggcaagcag 60
ctggaggatg gccgcactct cgcggactac aacatccaga aggagagcac ccttcacott 120
gttctccgcc tcagaggtgg tatgcagatc tttgtaaaga ccctgactgg aaaaaccata 180
accctggagg ttgagagctc ggacaccatc gacaatgtga aggcgaagat ccaggacaag 240
gagggcatcc ccccggacca gcagcgtctg atcttcgccg gcaaacagct ggaggatggc 300
cgcaccttag cagactacaa catccaaaag gagagcacc tccaccttgt gctccgtctc 360
cgtgggtggtc agtaagtcag gggtcgttta ggctgccgat gtgcctgcgt cgtctggtgc 420
cctctc 426

<210> 7007

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-A7

<400> 7007

aatagaagag agcatctaca aattgaacag gagcagagct gtctgctcta ctataaacgg 60

taaatccaaa aacttcaaag atgagcctgt tttgacgctg aaggatgtgg agtcgctatt 120
 cccgatggca ggacctgatg aaccctaga acaggcagat caaaattacg gcgatagctt 180
 gaggagtttg cctccatctg ttgccgctgg gttagctgct gaaagaaggc gactaatgga 240
 gcaataagtt aatggagttt gcctccatct gttgccgctg ggtagctgc tgaaagaagg 300
 cgactaatca agggacctcc atccatcgtt gtggcagttg tgctaatttt acttga 356

<210> 7008
 <211> 247
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-024-Q1-E1-A8
 <400> 7008

ccgggccgac ccaaactgca gaatagaaga gagcatctac aaattgaaca ggagcagagc 60
 tgtctgctct actataaacc gtacatccaa aaacttcaaa gatgagcctg ttttgacgct 120
 gaaggatgtg gagtcgctat tcccgatggc aggacctgat gaaccctat aacaggcaga 180
 ttaaagttac cgcgatagct tgaggacttt ggcccatct gttgccgctg cgttacctgc 240
 tgaaaca 247

<210> 7009
 <211> 263
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-024-Q1-E1-A9
 <400> 7009

agctctgaca aatcctgacc taattgacca gtgcgcaaga gaggattttg ttgagagagt 60
 taaaactcaa caagattaag ggtgcaatgt ccatggtttt ttagatgtca gtaaagttgc 120
 cggacaattt cactttgccc caggcaaag tttttatgaa tccaacatag atgtgctga 180
 gctgtcatta cctgaacgtg gttccaatat tacccacacg ataaacaaac tgtcctttgg 240
 gacagaattt cctggtgttg tca 263

<210> 7010
 <211> 401
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-B1

<400> 7010

agcataagcc tgtgtggatg ggagcctagg tggcttccaa atgttcaaga ctgtgaagaa 60
aattcaacgc attcagctaa aaatttaccc tcagctggac ctgacgaacg gttatatccc 120
cattttgttg aacataacaa aaattcattt tctgcatcag ccaagaaaga taaggggaaa 180
ggcaaattgc cgttggaga ttctggatgc agcatgaggt caccgttggt agattgtaac 240
ctgtgtggag ctacagtcag gatgcgggac tttagacctg tattatgtcc ttctcgtttc 300
agtccaaata acattgttgt gcctggaaca ggcagaaagc taacactgac acatggagtt 360
agtgtgccca gtggtatcaa tgaattgggt taccgatggg g 401

<210> 7011

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-B10

<400> 7011

cgaccacgc agtcaggaat actatataag tgaaataaaa acaagtaaac catgtaaaaa 60
taatcaacag aaaagtgaat tcattctggg gccaaattca aaaaaaccct gccttcctgc 120
ccggtctgcg tcattggcag ctggtcacag cactgctcag ctgggtcaca gctgcaggat 180
tccattctta ttttcattgc tgtgccgggt atgccattca tgcccatgac cgtgctggca 240
tctgagtcca ttgcatctgt cagctgcgc atccagcact tcattggctt tgtggcgacg 300
aatcacaggc ttgtgctggg tt 322

<210> 7012

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-B11

<400> 7012

gtcaaggatc atgcaccaca gaaagaagat tcttagtata caagtgtacg gtgggtctcca 60

ttctgccgag tacgaaacca tagtgcaaaa tgctccgcca ccgccgtcgt gtgagataac 120
 tgatatttat ggcttcagga ggtcgaggcc tttatatgga tcattcaggg gaggcgttgg 180
 tcagatgaag ctatacttca acattttctc atcattctgt aaaattctga aaaagagtca 240
 tctttctgtt caactgcac tacgttgatt gttttttcat tgccaacact ctagtaggcg 300
 atttatctac gggtttttca ctatattcat taagatatta t 341

<210> 7013
 <211> 293
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-024-Q1-E1-B12
 <400> 7013

gaccacgaa tcagcaggcc tgcggtggac acctaggcag ccagcgacga ggaagggcgt 60
 accaagcgac aatctgcctt ggggacttgc gaatgagcct agatcaggag attcccacgt 120
 cagtcaagct ttcgaatcgc ttgcagactc cctgattatg tacgacacca ttctgctcaa 180
 ttgatagctc ttagtaccgc gaggtcacga catcactctc gacgtccttg ttatccggct 240
 accgaaacgg gatcagccta aatcgtgaac actgggttgt gggagagcga tac 293

<210> 7014
 <211> 386
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-024-Q1-E1-B2
 <400> 7014

cccacgcgtc cgcggacgcg tgggagtgt accaagaaca ggaaggaaac accgccgccg 60
 ccgcgccttc cattccagta ctgcggagg aaaggaacac cagccagcgc catggtcacg 120
 tcgacgaccg ccgccgccgt gctgtccccg ccgtccgtgg ccgggcttcg cctggcgccg 180
 tctccccggg cgcgcgtggc gttccgcgcg gcgccggcgc ggcggtccgt ggcggcgcg 240
 gcggagctga gcccgtcgct ggtgatcagc ctgagcacgg gcgtgtccct cttcctgggc 300
 cgcttcgtct tcttcaactt ccagcgggag aacctggcga accacgtgcc cgagcagaac 360
 gggaagacgc acttcgacgc cggcga 386

<210> 7015
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-B4

<400> 7015

agcggacgcg tgggcgacaa ctctctaccg tccgagaccc caagcaccag cgcggcggcg 60
gcggcgggcg cggcggcaac catggctgtc gggaagaaca agaggatctc caagggaaag 120
aaggggtggca agaaaaagac cgtcgaccct ttctctaaga aggattggta tgacatcaag 180
gcaccgtcgg tgttcagtgt gcgcaacatc gggaagagtc tcgtatccag gacacagggt 240
accaggattg cttctgaggg tctgaatcac agagtctttg aggtttgcct agctgatctt 300

caaggcgacg aggattaagc ttacaggaaa atcacgtccc gtgctgaaga tgtgcagggc 360
aggaatgtgc tcacaaactt ttgggggatg aattttacca ctgataaatt gagatcc 417

<210> 7016
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-B5

<400> 7016

agccacgcg tccgccacg cgtccgccca cgcgtccgcc cacgcgtccg gaagaagacg 60
agtgtcaagt gaacctgaaa cttgcggtgt cactggctgg tatagcctga gtgtgagtga 120
gtgatcgagc tagctgagct ccgatacctcg ctagctagct aggataccgc cataccacaa 180
gtcttcttca caagtttagg agtgacagca acaagagatc tcgatggcct ctgccaccgt 240
gctcaagtcc tccttccttc ccaagaagtc cgaatggggc gccaccaggc aggccgccgc 300
gcccaggccg cccaccgtct ccatggctgt ccgcgcctcc gcctacgccg atgagctcgt 360
gaagaccgcg aaaacgatcg cgtccccggg ggcggggcat cctgccgatg gacgagtcga 420
acgcgac 427

<210> 7017
<211> 138
<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-B6

<400> 7017

cgaccacgc gtcagccac gcgtccgcg acgcgtggc ggacgcgtg ggtgttctc 60
agtaactcct gtatttggtg tatgaaccga aagattgcga gggtcactg catggtacag 120
ccggagtgag agtgagtg 138

<210> 7018

<211> 226

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-B7

<400> 7018

cggacgcgtg gggaaatgct tggaacaag catatatgca ggacctggtg aacaatctca 60
tcaggtaagc ttgtattctg catagactga aatactgaca tatttttcca ttctgtact 120
tataatgctc atttatgtcc tatttagttc gatcccttga ttcactcact ggtagtctt 180
tgaatttact gcctaggcat ggaatacctg gttttgtaag ttgggt 226

<210> 7019

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-A12

<400> 7019

accacgcgt caggagtcag tcctataaca ccaccggaa cctgtgccag gccggcacgg 60
tgaaacggat aaggaggtg aacttcaagg tgaccctca gccgccgtg tccaggaggt 120
tcgccagaga agaacaacgc gcaccggaat gagacaacct gaaaccgcca gccactacc 180
accgggctg gaagacacgc gcatgctcac gatgacggc atccccgtg gcacgcacaa 240
cactggccag gccgttctc ttcactcacc ttcagaatgc agcgcaataa tcagcttccg 300
gacggtggcg tttt 314

<210> 7020

<211> 301
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-023-Q1-E1-G12

 <400> 7020

 ccacgcgtac gctatgcgat tcgctcgctc gatcctatct tctcttcaca tgaagcgcaa 60
 cgcccatggc catggccatg catggctccg cgcgcacgcg ccactctgttg gtcgctgcct 120
 .gggcgcccgtt ggatattcga cggtagcatg gcactcatgt cgcactaccg ttttcgtaat 180
 cacgtgcggt tgacgtgcaa cttgcctaaa ccgatgaggt ggtttaagtc tcggtgggtt 240
 cataggatgc ttacctgttg ctatacaatc tgtctctatt cttcctacga cattgacgag 300

 g 301

<210> 7021
 <211> 397
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-023-Q1-E1-G2

 <400> 7021

 cccacgcgtc cgctgctacc agcaccacag cctagcacc caccgcgtct agggttttct 60
 gctccaatgg ccgccgcgag ggcatacggg gagegcagga tctgggtggc catcgactac 120
 tcggagagcg ccaagaaggc gctggactgg gccatcgaca acctgctcca ccacggggac 180
 accctcgtcg tcgtccacgt cctgcaccac ggcgcggagg agaccaagca cacgctctgg 240
 gccaaagtccg gatccccgct gatcccactc tccgagttcc gggagcccga ggtgatgcag 300
 ggctacggcg tgcgccccga cgccgaggtg ctcgacgcga tcgacacggc agcgcgccag 360
 aagcagctga acgtggtggc gaagctgtac tggggcg 397

<210> 7022
 <211> 315
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-023-Q1-E1-G4

 <400> 7022

cggacgcgtg ggcggacgcg tgggcggacg cgtgggtag aggttaattt ggactgttta 60
atatttaa at gttgtgggtg gattaagggg ttatttagtg ttttaagtac aaacagagga 120
ggacaattca tgcacatact ttagcttttt attgcaatga tagataattt atatgaagtt 180
taggacttat tttggatata atatgtcaga atgacagaga ttcacctgat atgcgagcat 240
gagttctcgc taaaatgtag cattgagtat tgactgcagt tcagtaagta aattaaagca 300
tgatagtatt gttga 315

<210> 7023
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-G6

<400> 7023
agaagagaag gttgtgaaga ataaagcaag ctcaaagca gatgaatctg agctcagatt 60
agcacagctt caacatcagc tccaaccaa tgaacctggt gactgatga atctttaga 120
agaatcaact gccgatgatg cagatgatga tgatactaaa gattgtaaag gtttatttaa 180
gaacttaaag ttctacttga gtcgagaggt gcctagggag tcctgttat ttataattcc 240
agcgtttgga gggactgttt catgggaagg agaaggagct ccatttaaag aaatagacga 300
agatatcact caccagattg ttgataggcc gacacaaagc catgttttcc tctccagga 360
ttatgttcaa ccacagtggg 380

<210> 7024
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-H10

<400> 7024
ccacgcgtac gctgaagaag caggagctgc agtagctgcg gaatcttcta ctggtacatg 60
gacaactgtt tggactgatg gacttaccag tcttgatcgt tacaaggac gatgctatca 120
catcgagccc gttcctgggg acccagatca atatatctgt tatgtagctt atccattaga 180
cctatttgaa gagggttctg ttactaacat gtttacttcc attgtgggta acgtatttgg 240

tttcaaagcc ttacgcgctc tacgtttgga ggatctacga attccccctg cttattcaaa 300
aactttccaa ggtccgcctc acggtatcca agttgaaagg gaaaagttga acaagtacgg 360
tcgtccttta atgggatgtt ctattaaacc aaaattggga ttatccgc 408

<210> 7025
<211> 361
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-023-Q1-E1-H11
<400> 7025

agcgaagaga atgaaatgat gctggaccag atggcggatg cagctgagac cattgcagtg 60
actccagagg agaacgaagc tatacttcgt cttgaaggga tgggctttga cggggcactg 120
gtcctggaag tgttcttcgc gtgcaacaag aatgagcagc tgaccgcaa ctacctcttg 180
gatcacatgc acgagttcga caacgatgac gggctcggag ggccaccgct atgagggcgc 240
tctcgatccc tacatcatgc gaacgaaggc tgtagggcag tagtaagaaa acgttttggg 300
aatcctcccg tccggtcgct cactctacaa attcgtttgg ctttgcgtgt taatacaaaa 360
t 361

<210> 7026
<211> 349
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-023-Q1-E1-H12
<400> 7026

ccacgcgtac ggaagaagtg gaagtccttg aagagaagac aacaccacct ttggagtctc 60
aggcagggtc tcgtctctac tttagcatct gcgggcctga gactaactca tctataaaca 120
aaggtgagga agcgacaaat ttttgttgct tttgctcaa ggtggtatca aatgaagaaa 180
aacaagagtg aagatgcggg aggacgtggt cctccatata ggacttttgt ttaaagctat 240
cgggaggagt ttttgcctcc cttgaaatgt gtactacgca acactcgttt atagctctgg 300
tctgtaataa gtaacttgat cttaccttct aaataaatgt aactttatg 349

<210> 7027

<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-H3

<400> 7027

cccacgcgtc cgccacgcg tccgctgatg gttactcgct gtgcgccaag gagatgacca 60
agctctctgg tatctcggac atcatcccag agatggagat ctgtgacttc gacttcgagc 120
cctgtggcta ctccatgaat gctgttcgat gccctgcttt gtcgaccatt catgtgaccc 180
cagaggacgg cttcagctat gcaagctacg aggtcatggg ctttaacccg ggctctttct 240
cttatggatga cctgggtaag aggggtgctga ggtgctttgg tccaactgag ttttctgttg 300
ccgtgaccat cttcggtgat cgggacaatg cgaagacctg ggggacgaaa ctggatgctg 360

aggcctatgc ttgcagcaac atggttgagc aggtgctgcc gtttggtggc t 411

<210> 7028
<211> 303
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-H4

<400> 7028

gcctgacact gctcacgcga aacaaaaaca ggcacctgta cctgtgtcaa ttgacgtccc 60
agaccccgac ttccatgatt tcgataaaga tcgaacagag aaggcatttg acagtgatca 120
agtgtgggct acatatgaca gcgaagatgg catgcctcgc ctatatgtaa tgggtcagaa 180
agttctttcg atgaggcctt tccggatccg catgagcttt ctcaactcaa agtcaaatat 240
cgaactggca cctataacct gggttgcctc cggtttccag aagacatgtg gcgatttcag 300
ggt 303

<210> 7029
<211> 408
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-023-Q1-E1-H5

<400> 7029

cggacgcgtg ggcggacgcg tggggaagat tttccggtgc caattgccac ggaataatgc 60
 cttctactca gctcaacctc caaagcatga tggctctgac aaaccactct gtccaggagc 120
 tcctgtatgc cactgggtgtg gtacctggaa aggtgataaa atatgtagta gctgcaagaa 180
 agcaaggtagc tggtatgaga aacatcaggc actgcattgg cgtactggtc ataaaaatga 240
 ttgcctccag ataataagtt ctggtgcttc aaattcagtt ctgccagctg taggaatagg 300
 gatttgtttg gcttccaaat ggtttgttgg tcctaaaata gtcagaatca catgacatct 360
 gtgctataga tatggacctc ggtgggtttc tccacattan gaaagctg 408

<210> 7030
 <211> 138
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-H7

<400> 7030

acccacgaat ccacggacgc gtgggaggac gcgtgggtct tcactatcaa tccacttccg 60
 caaaaaatcc tctctattca ataccatcca tcaacatggt tgcattcata aatctcatca 120
 actccgcagt ggcttttg 138

<210> 7031
 <211> 378
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB189-023-Q1-E1-H9

<400> 7031

attggaaaagg gaaattccta cattgcttca aaagtccac cgcagcccat agagatatgg 60
 gcatgtgagg gatctccctt ctgtaaatta gtacgagaga cacttgtcga gttggaattg 120
 ccacatctgc tacacagctg cgcacgaggc agcccaaac gacaagaatt tttcaagaaa 180
 aaggggcttt tccaggcgcc gtacatcgaa gatcctaaca cgggagtcca gatgtttgaa 240
 agcgctgaaa tcatagacta cctgaaggca acatatgccc tgtaccaag ctcgtaantga 300
 tgtatcagaa atggtcattg taatgttgcg tgtagattca gttcttcccg gtaataaaag 360

<210> 7032
 <211> 439
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-024-Q1-E1-A1
 <400> 7032

agcccacgcg tccggagcca aggagttctc gaaagcaaag aataaaagag cggctatcca 60
 atccttgaag aggaaaaaac tttatgagca acaaattgag cagcttgga attttcagtt 120
 gagaatccat gatcagatga tcatgttaga agcagctaaa gctacaacag agactgttga 180
 tgcattgaga actggagctg cagctatgaa agcaatgcaa aaagcaacaa acattgatga 240
 tgctgacaag accatggatg aaattaacga acagactgaa aacatgaaac aaattcagga 300
 tgctttgtca gctcctcttg gagcttttgc tgatttcgac gaggatgaac tggaagctga 360
 acttgaagaa ctggaaggag cagagttgga atctcagctt cttgagcctg ttgcagctcc 420
 tccggtgcat ccagtgcag 439

<210> 7033
 <211> 376
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-023-Q1-E1-G11
 <400> 7033

cccacgcgtc cgcgatctga acctcttcca gctacactca tgatgacaat tcgcaccccc 60
 tcgagtccaa tgaccatggt tctcggaag tgtgtccgtc tcgtcgagtc acggcgcggt 120
 acggacgcgg ccaagatggt agtggtggtc acctaccgcc ttgtggaaca ctgtgcaggt 180
 cacatgcacc gcaggacgac atcatcgtgc atgtcaagaa gttggtggcg gcgcaaacgg 240
 ggacgcgcac cgagaagatc cgcattccaca tgtggtacaa catctacaag gaccacatca 300
 cgctcaagga ctactaggtc cactacggca tgggccacga gctctactac aactgatccg 360
 ccgcgcttct ctcctt 376

<210> 7034

<211> 240
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-E3

<400> 7034

aagaagagtg tcaagtgaac ctgaaacttg cgggtgtcact ggctggtacc ctgagtgtga 60
gtgagtgatc gagctagctg agctccgatc ctcgctagct atgataccgc cataccacag 120
gtctttcttca catgttttagg agtgacagca gcaagacatc gatggcctca gccaccgtgc 180
tcaagtcttc cttccgtccc aacaagtccg aatggggacg ccacaaggca tgccgccgcg 240

<210> 7035
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-E6

<400> 7035

aggaccgagc aaagcgcaaa gccccccaac cgcggatcaa tccgcagcat cgatggcgcc 60
caaggcggag aaaaagcccg cggcgaagaa gcccgcgag gagggagccc cgaccgagaa 120
ggcggagaag gctccggcag ggaagaagcc gatggcggag aaacgcctcc ccgcgggcaa 180
gtccggcgcc ggcgagggca ataagggcaa gaagaaagcc aagaagagcg tggagaccta 240
caagatctac atcttcaagg tgctcaagca ggtgcacccc gacatcggca tctcgtccaa 300
tgccatgtcc atcatgaatt cttcatcaa cgacatcttc gagaagctcg ccgcgaggcg 360
cgccaagctc gcccgctaca acaagaagcc catcattacc tcccccgaga tcc 413

<210> 7036
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-E8

<400> 7036

agcttcgtca tacagaagtt tatctccttt aagagatcct gatatccttg gaagaaactt 60
gccaggacca acatccccta ttccttcgac atcaagtcgc aggatcgcag cattgaacac 120

atccaatggt cggaatgaaca tgcgctgcc tgtctctccc tgccttagcc cgctacggca 180
gtacaggcag tccaaccgaa gttgcttgcg ctcccctccc caccagcct attcagctgg 240
agcagccaac tacaatccta tcaacaatgc actctaccca acgcgaccaa gcagcgggtct 300
cacagatcca tggctcgaaa tctctcaggt gaaaacgcaa acttttgatt ctccaagaag 360
attgtagaga ttcaaaaaag aagcaatact ttgtatacag gcagggaaag a 411

<210> 7037
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-E9

<400> 7037

agcaaaggca tacacatggt tatctcattt accagatcct gatgtccttg gtagaagctt 60
gcaattacca acatcaccga gtccatcgac atcaagtcgc aggatcgag cattgagcac 120
atccaaagtt cggaatgaaca tgcgctggc tgtctctccc tgcgctagcc cgctacggca 180
gtacaggcag tccaagctaa gttgcttgcg ctcccctccc gacggagcct attcagctgg 240
agcagccaac tacaatccta tcagcagtgc actctaccca tagcgaccaa gcagcgggtct 300
cacagatcca tggctcgaat tctctc 326

<210> 7038
<211> 238
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-F2

<400> 7038

cggaacgctg ggcgaacgca tgggcgggat cgtgctcagt cactagttcg tcaatctcgt 60
ctcacgggta gacaacgact tgggcaacag caaccgcatt gtgaagggtga tcctcaatat 120
gctcatgacc cactgtacgg gatttttcta cctgcttgta agggatggat gcagctagt 180
ttgcctaaa attaaagttc atagtactag ccactgagtc gccagcttca tgcagagt 238

<210> 7039
<211> 283
<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-F4

<400> 7039

aaaaaaaata aaaaagaaaa aagaaaaaaa aaaaaaaaaa agaagaaaaa aaaaaggggg 60
gaaatcaaaa acggataaaa gcttaaatgg gcggggattc aaatgtgata gttcttcggg 120
tgggtctcca tgagatcttt tctactgggcg tcggttttaac atgacttgat tgggatgccc 180
ttgggttttac taaaccttct cgggttgaat cctgtcttcc tttccctaag tggccttcca 240
gtgaaatcgg ccttttccga tcggccttct caacaattgg gcc 283

<210> 7040

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-F7

<400> 7040

ccacgagcaa ccgataatcc gccggcggtg agatgttggg ttatcaggat ctcttatctg 60
gcgacgagct cctgtcggat tcattcacct acaaggagct cgagaacggc gtcctgtggg 120
aggtcgaggg aaagtgggtc acccaaggtc ctgttgatgt ggacattggg gccaatccat 180
ccgccgaggg tgggtaggac gaaagcggtg atgacacagc tgtgaagggt gttgatattg 240
ttgacacatt ccgtctacag gagcaacctc cttttgacaa gaaatcattt gtgtcttaca 300
tcaaaaaata catcaagaat ctactgctg tgttggagcc agagaaagcg gatgagttca 360
aaaa 364

<210> 7041

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-F8

<400> 7041

gctgtttgat tattactgag attcaatcat ttggtcagat gagagttctg gctggggact 60
tacaagtgtg gcactgttgt cggcttgtga ctaaatagca tcaacttaca tacaactg 120

gataatggat cgtagggata cttcaggggtt tgtagtgga ggatgcaaaa ataatgaagc 180
ctactagttt ctctatatct tctaacttgg tagctttatt gacaattatt taaccagaa 240
gtgaggccag ctggtacttc ccataaagtt tggttactct aatagcaatg gaaccaggc 300
atgggcgttc agcattcact ataagtttct caaatccaaa tggctttgct aatcagtga 360
ccgccattcc agccgtcagt t 381

<210> 7042
<211> 383
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-023-Q1-E1-G1
<400> 7042

acggacgcgt cggcggacgc ctacgcggac cagtgggccc tcagcagatt catccccgat 60
cgtctcacac ggaccaggat cacgttcagc tacgccttat gcttcaacgg cggctcacac 120
atcttcagcg acggcaggtt ggacgacctc gggaacacga gcatcatcga cgcggagagc 180
atccttgcca tcttggcctg ccagatcatg gtcatgggcg acttcgacgg cgaccgcatc 240
gcctgcggcc agctcggcga ggtcgtcaac tcgctctaac ccggcagcag catccatgcg 300
ctcggcctct ccaacgatcc caaagcattc gccaaactca aagtcatcga gctcagtaac 360
ggtcgcctcg ccatgttctc caa 383

<210> 7043
<211> 435
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-023-Q1-E1-G10
<400> 7043

cccacgcgtc cgcccaaggc aaccaaacca tctcgactcg tggggaagat tcgctctcgc 60
cggcgctcgc ggcctagggc tcgaggaacg tccgtccgctc cgtccgggtga aggagcggta 120
gggaggcgga gatgatcgag gtggtgctca acgaccgcct ggggaagaag gtgcgggtca 180
agtgaacga ggacgacacc atcggcgacc tcaagaagct ggtggcggcg cagacgggga 240
cgcgccccga gaagatccgc atccagaagt ggtacaacat ctacaaggac cacatcacc 300

tcaaggacta cgaggtccac gacggcatgg gcctcgagct ctactacaac tgagccgccg 360
 cccctctctc cctctcgta ggtactagca gtagcagcga ctggttcctt ctacaactcg 420
 atttcctttc gattc 435

<210> 7044
 <211> 394
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-C8

<400> 7044

agccccacgcg tccgcccacg cgtccgccca cgcgtccggt tcaaggagct agctcaggct 60
 tatgagggtcc tcagcgaccc tgaaaagaga gagatctatg accagtatgg cgaggatgcc 120

ctcaaggagg gaatgggagg cgggtggggg atgcatgac cctttgacat attccagtca 180
 ttctttggtg gtggaagccc ttttggagggt ggcagcagta ggggcagaag gcaacgacgg 240
 ggagatgatg tggttcatcc tctgaagggt tctctggagg atttgtacaa tggcacatca 300
 aagaagctct ctctgtcccg caatgtcctc tgctccaagt gcaatggtaa gggttccaag 360
 tctggagctt cgtcgagggtg tgctggttgt caag 394

<210> 7045
 <211> 287
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-D1

<400> 7045

accacgcgtc agaaaatcga gccgaaaaag atcaaacgaa aaaaaaagaa gaaaaaacc 60
 ctaaccaactc cgatcgaatc atccgagggc cgcagcagcc cggcgaggct atgtctcagg 120
 caaccgccgc ctcccgggat cgcttcgcct ggtgagacaa ctccgggccgt tcatttcgtc 180
 tttccgtggg gatatgaggg ccgctccgac cgattcggcc acggcgccgg cgaagtccat 240
 gctgaggctg ctgttcgatc cccagctcct gcggattccc ccagcgg 287

<210> 7046
 <211> 369
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-D10

<400> 7046

agcggacgcg tgggatctgg cgcttccttg gaccatggct acaccgacca cggaacaagt 60
gcacaaaagt catcttttggg ttagttggca tgcaacgtaa agtttaatat acctatatca 120
caagattttg atcaagagtt gacaagctta atggaccatg actatttttc accaaaaggg 180
caaagttag tttcattatc aattatatta accactctgt tcaaatttaa gatcgaattg 240
ggttcttctt ttatttagca tacttgaagt tcattgcttg tttcattcgt accaactaat 300
acatttggtc acgattttat tccaggctaa aagaactcgt gaaaggaccc ctactcctgg 360
aaaatactg 369

<210> 7047

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-D11

<400> 7047

ggcttggggt gtgaggatgc tcttggtcat ctgcttaact atgtttggcc caacatattt 60
gagacatctc cccacgttat aaatgctgtc atggaggcaa ttgaggggat gagggctcgca 120
ctagggtcgg ctgtgatttt aaattattgc ctgcaaggtc tcttccatcc agcaaggaaa 180
gtacgagaag tgtattggaa gatatacaac tctttgtaca tcggcgcgca ggatgcactt 240
gttgcttctt atcctgccct ggaagacgat ggggataaca tctttagtcg tccagagttg 300
gcaatgtttg tctgattaac gctggatgtg catgtccatg tgtcttcac catattctta 360
tgaagcttga actgggtggt actctgagtt agagctttgt atttacttgg gacacc 416

<210> 7048

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-D12

<400> 7048

agacattgtg accaagagtc tgaaactttg gatcatatTTt tggtttcttg tgtttttgCG 60
agagaattct ggttcCGgct gatgtgcatt ttcagactac aaaatctggc tcctacacct 120
agtacgggtg cttttacggg gtggtgggag atgattgaca atggctctgg agatatgatt 180
atgaaggggtg tcaactccct tattgccttg ggagcctgga ttatttgga tcaccggaat 240
cgaattgtct ttgatggact ctcccctagt gtttctgcag ctctttgtca ggcaagggag 300
gaacaacaat tgtgggaaat ggcaggagct aaaggctctct cctttcttgc cgcaaccatc 360
agaagcacct aactgcctgg ttttt 385

<210> 7049
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-D2

<400> 7049

gcagcagagg cagcgacacg atcgcgagcg cacgcacgta agcacgttgt cggaagctca 60
agttagaaga agcaccagtg actgatcgat ggcggcccag gctctcctct ccggccggca 120
gctgctgggc cgccccgtgc agtcggccgt ctctaggtcg tcggcgagga aggcgcctt 180
cgtcgtcagg gccagctcca gccctccagc caagcaaggt gccgacaggc agctgtggtt 240
cgcgtccaag cagtcctct cctacctcga tggcacgctg cccggcgact atggcttcga 300
cccgtgggc ctctcggacc cggagggcac cgggggcttc atcgagccca agtggctggc 360
ctacggcgag gtgatcaacg gccgctacgc catgctaggc gcggtgggCG ccat 414

<210> 7050
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-D3

<400> 7050

accacgcgt caaaaaaaga cgagtgtcaa gtgaacctga aacttgCGgt gtcactggct 60
ggtagcctga gtgtgagtga gtgatcgagc taactgatct ccgatcctcg ctagccagga 120
taccgccata ccacaagtct tcttcacaag tttatgagtg atagcaacat catatcgatg 180

gcctctgcca ttgtgctcaa gtccctgttc catccacca actccgcatg gggcgccaag 240
acacatgtcg ttgcgctcaa gccactcact ctccctaattc gattgcacgc ttccccgtaa 300
ctatggcttc gacctactgg gcctctcaga ctcggatggc accggggggt tcatctagcc 360
caagtggatg gcctacggag atgtgatcaa cggccgccat gccatgctag g 411

<210> 7051
<211> 410
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-023-Q1-E1-D4
<400> 7051

gcggcggggt agcatttgtg ctacgagggc ttttgcaatg gcggcttcgg ggttcggcgg 60

cggcgagggc ttccggctct cgcccgacc aggggccggc ttactgaagc tgcacaaggg 120
cgacatcacc ctctgtccg tcgactgcgc caccgacgcc atcgттаатg ctgctaатga 180
gcgaatgtta ggtggcggag gtgttgatgg agctatacat caagctgctg gaccagagct 240
agtgaagca tgccgaaaag ttccagaggt caaaccagga gtccgttgtc ctactggaga 300
agctaggatt actcctgctt ttgagcttcc tgccctcctg gtgattcaca ctgttgcccc 360
tatatatgat ttggacaagc atcctgaggt gtcattaaag aaggcctatg 410

<210> 7052
<211> 414
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-023-Q1-E1-D6
<400> 7052

caactagcaa catagaaagc acaatagtgt accaacaatg gcagctaaaa tattttgcct 60
ccttatgctc cttggctctt ctgcaagtgc tgctacggcg accattttcc cacaatgctc 120
acaagctcct atagcttccc ttcttcccc gtacctctca ccaacgggtg cttcggtatg 180
tgaaaacca attcttcaac cctacaggat ccaacaggca atcgagctg gcattctacc 240
tttatcacc ttgttctctc aacaatcctc agccctatta cagcagttac ctttggtgca 300
tttattggca caaaacatca gggcacaaca actacaacaa cttgtgctag caaaccttgc 360

tgcctactct cagcaacagc agtttcttcc attcaaccaa ctagctgcat tgaa

414

<210> 7053

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-D7

<400> 7053

agaagacaga cggcaaggca gccagaaccc ttgccaagct catgctcttc cgccagttct 60

atgttgccgt tattggatac ctctacttca ccaggatcat tgtgtatgcc ctcaagacaa 120

ttactaacta caagtacaga tgggtcagcg ttgcagcgga ggaggtggcc accatggcat 180

tctacatgtt catgttctac atgttcaggc cagctgagag gaaccagtac ttcgcacttg 240

acgaggatga tgaggaagcc gcagagatgg cgctccgtga ggaggagttt gagctctaga 300

cgaccacgtg gatgtccaat gacatgggaa tgcagccatc tccattcat tttctctcg 360

atgtgatgtt gatcatacta tacagattca gggtttagct aatatatgtc tacgt 415

<210> 7054

<211> 67

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-D8

<400> 7054

gacccacgca gtcacccacg cgtcagcgga cacgtgggcg gatgggtagg gtgatttgat 60

gggtttg 67

<210> 7055

<211> 133

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-D9

<400> 7055

cacgcctata taatcagtcg tagtaacggc gtcacgtctt gccgccgct caagtcacaa 60

cgagatcaat attaccgacc acaatagact ctgcgttctt gccgccacgg ctgtctggcc 120

<210> 7056
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-E10

<400> 7056

ctcctccgtc gccggcctcg gtggctgcc gtacgcgaag ggtgcgctcg ggaatgtggc 60
gacggaggat gtggtgtaca tgctcaacgg gctgggcgctc aagacgggcg tcgacctggg 120
caaggtgatg gccgccggcg agttcatctg caggcacctg ggacggcagt ctgggtccaa 180
ggcagcgacc gctctgagca aagttaccgc gaacgcctcc aaactctgac aatttaccat 240
gatcacctac tgcagataat tgcagtaaaa ttagcgcgctg gtaataaata gactgaggct 300
attcaaataa atacggcctc ggagctaata atgagtaaatt ttttaatt 348

<210> 7057
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-E12

<400> 7057

gaagtactgc aaggacaacc cggactccga ggagtgccgc atctacgaca actagctagt 60
cgtatagcta tataggccat cgacatgaag gacgaagggt gtagcacact acgaaagaat 120
gatactctcg atcggcgcggt catacgtgga atgaacttgt ttgtatcaag ctatctatac 180
ctcaatgctt ctctacctgc cgccgccgca ccccgatga tatgtgatac acagctggga 240
tggtatactg atattttggg tt 262

<210> 7058
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-C7

<400> 7058

cggacgcgtg ggcttgctct gatagcttgc tccaggacgt acgtacgtac gtagatcgat 60
 ccatcgatcg ctagctagct gacgaccatg gcgtccctct cctctgccgc catcaccgcc 120
 ccttccttca cggccgcgcc cgctcgcgca gtggtcagca ggaggtcctt caccgtgcgt 180
 gcctctctcc gcaaggccac tgccaccgcc gccgtggccg ttgccgccag cgtcctgctt 240
 gccggcggcg gcgccatggc ccaggaggtg ctgctgggcg caggcgacgg cgggctcgtc 300
 ttcgagccca gccagtccac cgtcaaggcc ggcgacacca tcacctcaa gaacaacgcc 360
 ggctttcccg caaacgtcgt gttccacgaa gacgaggtgc cgagc 405

<210> 7059
 <211> 333
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-A9

<400> 7059

cccacgcgtc cgccctcatc attgccgacc tgccgtccgc tcagccggcc aggcggccag 60
 ccgctgtccc gcctgtccgc cgagcgcccg acgaccgag caggcgagca gctccgcgcc 120
 gcgcgacgtc ccgagcagct cctgttcggg atccctgttt ctgcttggc ggctgcctga 180
 ggccggccagc agtcatggcg actcgcgccg gacgaccgcc cagtccggcg cccgctcttc 240
 tgctcctcct catcttctg tttctgttgc ggggagttct tccgtcgcta gccggggaca 300
 ccgtcgcgcg cggccgcccc ctgtccgatg cgc 333

<210> 7060
 <211> 330
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-B1

<400> 7060

agactagctc tcacgtgcgc accgcctgct cgacgcaatt cccactcgc ccaccaacct 60
 tcccgtcccc gatggcgatc atggcggcca ccgccactgc cgtggcttcc cctccagct 120
 ccacctcgcc aggtccccct caaccagcc cccgcttctt cctcccgtc tccagccccg 180
 ctgctgccca tctcctcccc aagccgcggc ggtgttgccg gcgcctccac atcgagcgtc 240

gggtggccgt cggcagcgac gtgtcttcgt cccatgacgt ggctgccgag gaggccgctg 300
ctgcgcccaa ggtccggaag cgctgcgcg 330

<210> 7061
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-B12

<400> 7061

ttccggggcg cccacgcgt cagatattaa ttaggttcta atccaattag tagtaagtat 60
tttctttttt atttaatagt ctctgactat cattaaataa agggtagagc aattcttttt 120
tctagagatt ctagagaaag tgagacaaag tgaagcgaaa gagttttctt tgtataagaa 180

ttaggtctat atcatatcta aatagaaggg aaatcaaaaa gaagggaagt ggggattaca 240
ttggatgaat ccttaaggaa gacatatcac aaaagaaata aaggctaaag taagcgctcc 300
ttgcctttgg tttgagcaaa acagattctt gtttcaccga ggaaaagaga gaagttcttg 360
ataaattgac aatgtcaact tgaattgact aa 392

<210> 7062
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-B3

<400> 7062

accacgcgt caggcaaaac gagcatccgc gtccctggct ctattgattt atttttaagt 60
agaaatcggg gctgtttgtg tacaagtgtt gtcgcagcct ccaagtggga ttttgagcac 120
gtgtataaag ttatagggtc cgtgtttcta caaaaaaaaaa aaaaaaaaaa aatcaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aataacaaat caaaaaaaat taaaacatac 240
aaaaaaaaaa aaaaacaaaa aaaaaaaaaa aaaaaccaac aaaagaaaaa aaaaaaaaaa 300
agggggggcc ccccaaaagg ttccaacttt atttaccctg aaaggcaggt ttaaaccctt 360
ccaaaagggc ccccaaattt caattcaggg gccgtctttt aaaaaagtcc gcctgggaaa 420
aaccgg 427

<210> 7063
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-B4

<400> 7063

accacgcgt ccgataagc actccagatg caacttctct tcttattcaa ccatatgata 60
agtcaagcct caagcttatt gagaaaacta tagttgctgc aaatcttggg gtgacaccaa 120
gcaatgatgg agaagtaata cgagtgactg tcccaccatt gacatctgat cgcagaaagg 180
aattatcaaa gacagtagct aaattagctg aagatggcaa gggtgctata aggaatataa 240
gaagagatgc aatcaaagct tatgataaac tagagaagga aaagaagctt tctgaggaca 300
atgtgaaaga tttatcagct gatttcaaaa aagtcacaga tgagtacatg aaaaagatcg 360
aatccatcca gaagcagaag gaacaggaac tgatgaaaat ttagacctca agctgact 418

<210> 7064
<211> 261
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-B5

<400> 7064

gaccacgcag tcaccgatgc gtccgcctag gcgtcggacc aggcttccga ttttgaacac 60
tcagggtcac atcagggtcaa tctccctatg aagagtttat cgatttgggt acctggaaat 120
gaactcttca tgcgcttcat gactctattg tgaagtcacg ttatcggtga actaatttaa 180
aaagtacacg tggattaagg accatgactg gattattccc ccgaacattt aattcggttg 240
ggcccccggg cataggcggg g 261

<210> 7065
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-B7

<400> 7065

cgacccacga gtcagcgctc atccaggagc ttgctggattg cttgattctt ccgcccgaagc 60
tcctcgctca gctcccgagc gaccttcgtc togacctcaa tgacgtgcg tttgatctct 120
ccaacggggc agttctcgac gagtgtggcc aggaagtggg tgatctgctc ctgaacctgg 180
caaaagcatg ggagttagct gagacgtcaa catcaaatag cattgccaag cagctgccgt 240
tgatggagcc ctacttgacg cgcagcgcca aatcagcggt tggcaagcgg ctggtgtcag 300
ctggaaggag gtttcagtca atgggacagt acaaccaggg ataactcaga ccgattgctg 360

<210> 7066
<211> 216
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-023-Q1-E1-B8

<400> 7066
accacgcat ccacccacgc gtccgaggac gcgtgggggc gtcgtccatg ctctccgcta 60
ccaccgtgcc actccagcag gggggcggcc tgtccgagtt ctccgggctc aggagctccg 120
cgctcgctgcc catgcgccgg aatgccagct cgggcgactt catgtccgcc gtctccttca 180
agacccacgc ggctggcacg atctgcgggt cgccgc 216

<210> 7067
<211> 391
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-023-Q1-E1-B9

<400> 7067
ccacgcgtac ggaatgatac agctgatggt ttggtcaagg agccagatct gaaggacata 60
cgcatcacct ttgaggagtt taaggcattt gctgacttgc gacaaagatt ggagccactg 120
tcgatggcta tctttgctca tgggaaagtg aatggattat tgacaaagga ggatctaaaa 180
cgtgcaacac aacatgtttg tgggtgtcaac ttaactgata gagtggtaga catcattttc 240
catgtgttcg acacaaatca ggatgggaac ctgagctcgg aagagttctt aagagcatta 300
tacagaagag aaactgacat tcgtcaacca ccacctacca ggtccatggc ggtttatctg 360
tcttgctggt tcacgtgcta cgacgtgttc a 391

<210> 7068
<211> 260
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-C1

<400> 7068

cgtatggccc aaagaatagc acctccacgt tgaatttctg caggatttag atcaaccgga 60
ataccaagtg cgcgagcaac acttctgtcg actttccaga gatgggcggg cggagcttgt 120
gtactctcgg ggacaaggcg cgtatctagc gcacacgtcc gttgcctctc ggtgggctgc 180
attgagccat ttcgccggca acgatgcacg cttcacgctc aagtaaagtc tcgttcatga 240
atgtcgtgctg tgctgccgct 260

<210> 7069
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-C11

<400> 7069

cgtaccggac cggcagttcg cgcgggcgca cccacgcgta cgcagacgcg tgggcggacg 60
cgtgggcgga cgcgtgggcg gacgcgtggg cggacgcgtg ggctcagaag ccgcaagact 120
gttcagctag aacatccggg agtacaaccg cagtgtccgc gagattgtgg agctcagcgg 180
gacagccgac tagtgcacga ggatgcccac cgtgcccgcg agggcacaat atggaaccat 240
gaacgaacat ccttgtgtct gtggttcgcc agacctgtcg aaccattgag taagtccact 300
tctagtctgt cgtcgtcacg cgctcggctc gatccgagag atcggttgcc caagggtg 357

<210> 7070
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-C12

<400> 7070

agcgagacgc gtgggcggac gcgtgggaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaagg gggggccccc caaaagggttc aaaccttatt 180
 tacccttgaa tgcaacttca aacctcttca aaattttccc caaatattcat ttcattgggcc 240
 ttctttttaa aacttcttaa ttggaaaacc cctgggttta cccaatttaa cccctttgaa 300
 aaaaaccccc ttttcccaat ctggcttaat accaaaaagg cccccacatt tcccccttcc 360
 aaaaatttcc ccaccctaaa tggcaaattg aacccccctt ttaccggccc attaaccccc 420
 ggggtttttg tggttaaccc caactt 446

<210> 7071
 <211> 319
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-C6

<400> 7071

gaccacgaa tcagaacaag cactacgtga ttcaatgaat cctgaagaga tctaccttct 60
 tttgcaccac aaggctcgagg atgtcttgca actgcggtac aagctgcgga tgcggctcag 120
 gcggcaagtgc cggaagaag taccctgacc tggaggagac gagcaccgcc gcgcaggcca 180
 ccgtcggccg cggcgtggcc ccggagaaca aggcgcgcc cgagttctc aacgatgcgg 240
 ccggcgtccg gccaagccgc caacggccgc acctgcagtgc gcacctgcaa gctgcgaacc 300
 ctgcaactgc tgatcacag 319

<210> 7072
 <211> 216
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-H12

<400> 7072

gtcctcacca ccgcgctcac ggcgtcccc aggaatgggc agcgggctc gtcctccttc 60
 ctcggcgga agacgtgct gagacaggcc gaggcggccc ggccgtcgtt cgccgtgcgc 120
 accgcggcgg accccaacag gccgatctgg ttccccggga gaaccctcc gccgtggctt 180
 cgacgggagc ctccccggg acttcggctt tgatcc 216

<210> 7073
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-H2

<400> 7073

cacgcgtacg cagacgcgtg ggtgcggact caacctgttt ttcattgtct tcacgttgat 60
tcttgttttt gcgtttgcta ttgttgccct gcacccaaag gtaccatcat gtagcctgtt 120
tttctccgtt ttactgattt tgcatttggt tatattactt gatttgacca gaaaccgttg 180
cttgataagt tatactggat ggggttgggg tttggggcag tattatactt gcaactctag 240
attattgggt tggtttgatt gttttagatt ccatcttggc catcgatatga ccatgctttc 300
caaaaactat gtctatacat ttcccttgaa tgtaactatc ttttttgtgc taaataatgc 360
tgaactttg 369

<210> 7074
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-H4

<400> 7074

ccacgcgtac gcaaacgcgt ccgagaagaa gacgagtgtc aagtgaacct gaaacttgcg 60
gtgtcactgg ctggtagcct gagtgtgagt gagtgatcga gctagctgag ctccgatcct 120
cgctagctag gataccgcca taccacaagt cttcttcaca agtttaggag tgacagcaac 180
aagagatcga tggcctctgc caccgtgctc aagtcctcct tccttcccaa gaagtccgaa 240
tggggcgcca ccaggcaggc cgccgcgccc aggccgcca ccgtctccat ggtcgtccgc 300
gcctccgcct acgccgatga gtcgtgaag accgcgaaaa cgatcgctc gccggggcgg 360
g 361

<210> 7075
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-H9

<400> 7075

ggggccacgc acgcgtccgc aaacacgtcc ggtttggatc ggatcggaca acccctgcca 60
aaaccgcgtg tgccggcgct gttctgcctc tgatcgtgtg tgctgctgtt ggttttggtt 120
ttggtttggc tagggaagga accgtgggag ggaagcggac ggacatgatg cacgccaagt 180
cggagtcgga cgtgacgagc ctggcggcgt cgtcgccgcc tcggtcgccg aagcggggcg 240
gcggcgccgc cggcaacggc ggctactacg tgcagagccc gtcgcgggag tcgcacgacg 300
gcggctacaa gtccctcgtc atgcagccca cgccgttcta caacagcccc aacgagtcgc 360
cgtcgacccc ctctacggc cgccactccc gtcctcctc cgtcagccgc ttctccggca 420
aactccgcaa gggc 434

<210> 7076

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-A1

<400> 7076

agcggacgcg tgggcggcgt gctgcggctg gaaccactgt ggccgccgcc tcgccgctgg 60
cgccgtcgat ggctccgtct ccgtctatga ctcccagccg ccaccctcgt tcaagtggca 120
ggcccatgag caagccattg tgaatgtcgt ctggcttctt ccagagtatg gggatgctat 180
agcttgtgtt tgtgctgatg ggacactgtc tttgtgggag gaggttgctg ctgatgatca 240
acttccaacc tggagaaatt gtaaaatctt cgaggatggc aactctcata tactaaatgt 300
acattttgga ttacatctgg gaattctgaa aatgggttact gcatactcag atggccaagt 360
caaggtctac gagctc 376

<210> 7077

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-A10

<400> 7077

gcggatcaag ctgcggctgc ggctcaagct gcaagtgcgg caagaagtac cctgacctgg 60
aggagacgag caccgccgcg caggccaccg tcgtcctcgg cgtggccccg gagaagaagg 120
ccgcgcccga gttcgtcgag gccgcggcg agtccggcga ggccgcccac ggctgcagct 180
gcggtggcaa ctgcaagtgc gaccctgca actgctgac acatcgatcg acgaccatgg 240
atatgattat tatctatcta gcttgtggtg gtggttgaac aataataagc gaggccgagc 300
tggtgccat acataggtat tgtgtggtgt gtgtgagaga gagagaaaca gagttcttca 360
gttt 364

<210> 7078
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-A11

<400> 7078

gaccacgcg tacgggaaaa atcgccccat cccctgacta tcaactggctc actgcccttc 60
cacctacagg ttccagggtta agtttaagat tgataaagat tgccgtcctc tccctgagag 120
tagtctcaag caagccatca aggaaaatta caatgcaaag agcaaatttg atccagagct 180
caccacaaaa caagtccaaa ggttactttt gctgtttaag cctgttagtg cacctcaatc 240
tgtttcaaat aatcaccttg gagaaaggcg ccactatgaa aaacgaagga agccacgcca 300
ttttgaagaa aggcggccta ttgaagcaac gcgtcggcca cgatttgatg aggaaaggcg 360
ccctgcgggtt agacatgttc cttttgagga tccatacagg gcaccacgct atgtccaat 420
tcctg 425

<210> 7079
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-A2

<400> 7079

ccggccgacc cacgctcaca gtaagaatga ggccataccc gattcaggac acccaaacaa 60
cgttccagtt caggcaaccg atttatacgg tcacctaagg aaaaaattct ctaagacaac 120

atttcccact gaccacaaga ttccggcatg taacggttga ggaaacggcg gcggtgcctt 180
 ccggggccaa gcagatccct gcagctgggt ccaagtacca gaattttacg cgcctagatg 240
 atgatgtcca ggttgattgg aggcagcagg gtgctgtcac tctgtcaag aaccaaggcc 300
 aatgtggctg ttgctgggcg ttctctgcag taggtgccat ggaaggtttg atcatgataa 360
 cgacaggaaa cctgg 375

<210> 7080
 <211> 419
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-023-Q1-E1-A3
 <400> 7080

acgcgtcagc ccaggcgtcc gcgtcgaccc gctctacccc ggcggcagct tcgaccgcgt 60
 cggcctcgcc gacgatcccg aggccttcgc cgagctcaag gtcaaggatc tcaagatcgg 120
 ccgcctcacc atgttctcca tgttcggatt catcgccag gccatcgta ccgggaaggg 180
 cccgctcgag aacctcgctg accacattgc cgaccccgtc aacaataacg cttgggccta 240
 cgccaataac ttcgtccccg gcaagtgagg gaggcgccgc cgtgacctt tatgtgtccg 300
 gatgcatgtg aacgcacgct ggttttcggg ttgtaccatg atgtaaacta ttgttcaatc 360
 gacaaggaat aattgtgttc attgtcaaaa gaaaaagtct gatcatgata acgacaaga 419

<210> 7081
 <211> 418
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-023-Q1-E1-A5
 <400> 7081

agcccacgcy tccgaatatt ttgagcattc agaaacacac ctagcgaagc gcactagcaa 60
 cgacctaaaca acaatggctt ccaagacatt atccctcctt gcgcttcttg ccctttttgt 120
 gagtgaaca aatgcgttca ttattccaca atgctcactt gctccgagtg ccattattcc 180
 actgttcctc cctccagtta cttcaatggg cttcgaacac ccagctgtgc aagcctatag 240
 gctacaacaa gcgcttgcyg cgagcgtctt agaacaacca attgcccaat tacaacaaca 300

atccttgga catctaacca tacaacccat cgcaacgcag cagcaacaag cactgagcca 360
 cctagccgtg gtgaacccta tcgcctactt gcaacaacag ctgcttgcat ccaaccca 418

<210> 7082
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-A6

<400> 7082

ggtaccaatc agccaatccc cgtccgaccc acgcgtcagg actaccgcat catgcgcggg 60
 gacagccgga tgcacaacat gcgagacgca ctaataggga tctaacacca gtggcatcta 120
 agacattatc attccttgca cttcttgccc tttttgtgag tgcaacaaat gcgttcatta 180

ttccacattg ctcaattgct cagagtgcga ttattccact gttcctccct ccagttactt 240
 caatgggctt cgaagaccca gctgtgcaag cctataggct acaacaagcg cttgcggcga 300
 gcgtcttaga acaatcaatt gcccaattac aacaacaatc cttgggacat ctaaccatac 360
 aaaccatcgc aacgcagcag caacaagcac tgagccacct agccgtgggtg aacccta 417

<210> 7083
 <211> 412
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-A7

<400> 7083

agaggacact actcctcaga actctccctt ccctcttgta ggggccaaaa gggtcagaga 60
 tctaggaaga agagaactag tccccaagcc taacaagaaa gcaagctctt ctgcaactgt 120
 tggcattcgc cttaatttgt atccatccca atggcaggcc tatctctgga acacccttg 180
 gcattcactt tcggcctcct aggcaacgtt atctccttca tgaccttcct ggccccgata 240
 ccgacgttct accgcatcta caagagcaag tcgacggagg gcttccagtc ggttccgtac 300
 gtgggtggccc tgttcagcgc catgctgtgg atcttctacg cactgatcaa gtccaacgag 360
 acgttctcctca tcaccatcaa cgcggccggc tgcgtgatcg agaccgtcta cg 412

<210> 7084

<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-H11

<400> 7084

ggggcccagc acgcgtccgg atgcaccgac gtgtcctgca ccatcgacgc gtcgctcagc 60
atgggtcatgg gcgacgacat ggtcaaggtc gtcgcctggt acgacaacga gtgggggtac 120
agccaacgcg tggttgatct ggcgcacctg gtggcggcca agtggcccgg cgccgcggcg 180
gccggcagcg gcgaccctct ggaggacttc tgcaaggaca accccgagac cgacgagtgc 240
aaggtgtacg aagcatgagg ccagggttct ttccacgacg aaacgtacag cacgggcgcg 300
agggttcttt ccatagagaa taatatacag attattcgcc caaagagacg tatgttatat 360

atatgag 367

<210> 7085
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-F3

<400> 7085

cccggtggc cccacgcgtc agcacacgcg tccgcccacg cgtccgggca gcctcggcct 60
gcagctcatg tcgcccacgc cacctgatcg ggacacgaag ccaactgctcc cgagagctgg 120
tttcttgacg cagcatgggc atcacaatgc cccacaccag ctccacgcac agcagccgca 180
gcattaccgt gactccgctg gtggcggagt ctctggtggc acacctgccg agcagcaccc 240
tatccacatg gacttctcgc gcaatgaagc ttggctgcac ccatcacacc accagcatcc 300
ccatgaacag aaggtecttc attctcgccc tatcggacca gctgggcatg ttgggcatcc 360
aggccatgtt gcccatcctg tgc 383

<210> 7086
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-F4

<400> 7086

cccggctggc cccacgcgtc agcacacgcg tccggagcaa gggatgctgc tcttaacgcc 60
atccagtcgc cgctgcttga tattggaatt gaaagagcca caggcattgt gtggaatata 120
actgggggaa ctgacctgac tttgtttgag gtgaatgctg cggccgaaat tatctacgac 180
cttgctgata caaacgctaa tctgatattt ggcgcctgca tagaccgctc actgagtggg 240
caggtagaca taaccttgat agctactggc ttcaaacggc aggatgaacc agaaggccgc 300
gtgtcgaagg gtgggcaaca aggtgagaat ggccgacgcc catccccagc ag 352

<210> 7087

<211> 412

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-022-Q1-E1-F8

<400> 7087

aagtccgggc tcgaccaca cgtagccca cgcgtccgcc cagcgtccg atctttgata 60
ggcatagttt gataattggg tgtgtgcaag agtcaaattt aggttcata tgtttacgcc 120
ccctgccatt tagctaaacg cacattggta tgcggtgaat ttcagaccag aaggtagatt 180
tcttcaaggg gaacaatgtg gtgtaacttg atcagcaca ccactttact gaagggtgcc 240
ggatcatgat gcagacaaca acaactggg tactcattac cactttgatg gtaatcgaaa 300
tggggacaaa cacaattgga gggaaaatat ccaaagacaa aaggagttag ttttcacttc 360
ttcagattcc aacantcaga ataagaacta gacatcatag agaccaactt tt 412

<210> 7088

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-G1

<400> 7088

agcccacgcg tccggtgcta tccattgctc tgggcgacac ggtataacctg tgggatgcct 60
ccagtggatc cacgtctgag cttgtgacca ttcacgagga cagtgggtccc atcaccagcg 120
tcaactgggc tccagatggc caccatatcg ctattgggct caactcatcc gatatccagc 180

tctgggacac cagctccaac cgactggtat gtgcactctc ctgcttcaac cagaaatgca 240
 tgcacgctct gtcattgaat ttaggttggt ttttgctgc agttgagaac tctcagaggt 300
 gtgcatgagg aaagagttgg ctactggca tggaacaaca ac 342

<210> 7089
 <211> 263
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-G10

<400> 7089

gcgtccgcac agaaatccgc agacgcttgg gaggtcacat cgccgtgacc gtcggttggtg 60
 catttctca atttactgct atcatgtgcg ccagatagca tttttgttta agtcgtggat 120
 cggggtggaa acattccata taatttttcg tttcgtattg acaccaatgt cgtcatatca 180
 taaaatcatc ccggggaatc tttctaatat ctgtcacact atccgaaaga acacgccct 240
 ttaatcagta tcatacttat att 263

<210> 7090
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-G11

<400> 7090

ggggccagcc acggtccgc aaacggtcc gccacgct cgcgccacgc gtccgagcgc 60
 acacacacac aaccagatct ccccaaact caccgctcg cacctccgt tcaagatgca 120
 gatctttgtg aaaacctga ctggcaagac tatcaccctc gaggtggagt cgtctgacac 180
 cattgacaac gttaaggcca agatccagga caaggagggc atccccccag accagcagcg 240
 gctcatcttt gctggcaaac agcttgagga cgggcgcacg cttgctgact acaacatcca 300
 gaaggagagc accctccacc ttgtgctccg tcccagggga ggcattgcaga ttcttgttga 360
 aaacctgac gggaagacta tcacctcca agtggagtcc tctgaacaca ttgaca 416

<210> 7091
 <211> 352

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-022-Q1-E1-G4
 <400> 7091
 acgcgtacgg aaagacggtg gaagcgggtg ccgagatcac cgcgccgttg ctgcccattg 60
 agcagctcct ctccgcaatt ccctccaaga gggaacaacg ccctgcagat cgatgagcta 120
 gacggcctca aagcattgca tatgcttcta ggttttggtt tgtatgcaat gttgtgatat 180
 cagagagata tctaagtttt tatattttat atgatgacga tgagaactaa gtacaagtgc 240
 ttttattttt tattattcct aaagacaact tttgtatatg taacatcatg aatgtttgag 300
 gtgtctcatg tgtaacttta attaatatca atttatgcat gaaatattat gg 352

<210> 7092
 <211> 337
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-022-Q1-E1-G5
 <400> 7092
 gaccacacg tacgggcttg gcttgggact gggccgcccg gccgcgagga ataaactcac 60
 tcctgccttc atacgtatcc atagccgcgg cagtacgtgt atgtggtag ctatacgca 120
 cctcagctcg ggcgcaagct acaagcccga ccacgcgaga agaagcatcg atagtgtgac 180
 gagctaacc accagcagca acgtaatcca aatccatgga caagcagccg ctgccctact 240
 ccacaggcca gcccctgcc cccggaggag ccccggtggc gggcatgcct ggcgcgccg 300
 gcctcccacc cgtgccggac caccacctgc tccagca 337

<210> 7093
 <211> 370
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-022-Q1-E1-H1
 <400> 7093
 agcccacgg tccggctccg caactacccc gataccattc ccaaactcctc cgtcgacccc 60
 tctacaccgg cgatcggcgg cgaacgatgg ggtgggcgac gcggttcctg gcggcggtgt 120

gcttctttgc tgggggcgtc ctcttcgtcc cagaggctat cggttcccca tccggcgag 180
gagccgtcac cgccgccaag ctggcccacg tctctcctt tgccacctcc tggggcgccg 240
ccctctgggc caccttcacg ggcggcatca taatgttcaa gaacctgccg aggcacatgt 300
tcggcaactt gcagagcaag atgttcccgg cctacttcac gcttatatct gcatgcgcag 360
ccatctccgt 370

<210> 7094
<211> 411
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-022-Q1-E1-H10

<400> 7094
ggggccagca cgcgtccgga ctagctctat agctcgagta ttgcttgctc tccacaagaa 60
acaaggcaga gcaccaacaa tggccgcccgc ctctctgtcc tcggtcctcc tgctgctcct 120
ggccgcccgc ttggctggca tgagcgccaa cgccgccacc ttcacatca ccaacaactg 180
cgggttcacc gtgtggcccg cggccacccc ggtgggcccgg ggcacgcagc tgaacccggg 240
cgggacgtgg accgtcaacg tgccggccgg caccagctcc ggccgcgtgt ggggcccgcac 300
cggctgctcc ttcaacggca acagcgggag ctgccaaacg ggcgactgcc gcggcgccct 360
gggctgcacg ctgtctgggc aaccgcccgt gacgctggcc gagttcacca t 411

<210> 7095
<211> 369
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-022-Q1-E1-F2

<400> 7095
tcccggctgg cccacgcgt acgcatgtcc acgctgcag ccgaggttga tcgcggtgtc 60
ggagcccata tcgttcaaga accccaaggc gcccggtgtc ccgcgcctgg cgcagggcac 120
gtcccacgac gagatgacgg tgacgtggac cagcggctac gccatcgatg aggcgtaccc 180
gttcgtggag tggggcgccc tggtcgccgg cggcgtccgg cacaccgcgc gcgcgcccgc 240
cgggacgctc accttcaacc gcggcagcat gtgcggcgag ccggcgcgca ccgtcgggtg 300

gagggacccc gggttcatcc acaccgcctt cctcagggac ctctggccca acaaggagta 360
 ccactaccg 369

<210> 7096
 <211> 422
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-022-Q1-E1-D9
 <400> 7096

ggggccacgc acgcgtccgc aaacgacgtc cgcccacgcg tccgcagaga ggagcttcat 60
 cagctcattc aattctcggt ccattccctcg tctcttgtgt cccgcctccg ttccataatt 120
 caccagcgtc gtcctacca tatctcctat cgtcttctcc ctgcgcgcat cagcttcccc 180
 aagccagcgg cgaccatgat ctccccggac accatccgca cggccatcgg cgtcatcggc 240
 aatgggactg cactcgtgct ctctctctcc ccagtgccta cgttcatccg catctggaag 300
 aaagggtcgg tggagcagta ctgcgccgat ccgtacgtgg cgacgctgct gaactgcatg 360
 atgtgggtgc tgtacgggct gccggcgggt caccgcaca gcatgctggt gatcaccatc 420
 aa 422

<210> 7097
 <211> 100
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-022-Q1-E1-E1
 <400> 7097

acgcgtcacc aacgcgtccg ctgacgcttg ggcggacgcg tcggccgctg cgtgttctga 60
 tgcttggtat ctcccttggt cggtgcttgt cttttcatcc 100

<210> 7098
 <211> 392
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-022-Q1-E1-E10
 <400> 7098

ggggccagca cgcggtccgca cccaagcccg cagccatgcc gcccaagctc gacccgtcgc 60
 aggtggtgga ggtgttcgtc cgtgtgaccg gcggcgaggt cgggcgagcg tcttcgctgg 120
 cccccaagat cggtccgctc ggtctttccc ccaagaagat cgagaggac atcgccaagg 180
 agacggccaa ggactggaag ggctccgcg tcaccgtcaa gtcaccgtc cagaaccggc 240
 aggccaaggt ctccgtcgtc ccctccgccg cgggcgtcgt catcaaggcg ctcaaggagc 300
 cagagaggga ccgcaagaag gtcaagaaca tcaagcacag cggcaacatc agcctcgacg 360
 acgtcatcga gatcgccagg accatgaggc ac 392

<210> 7099
 <211> 458
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-E11

<400> 7099

ggggccagcc acggtccgc agacacgtgg gcaccgaccc atacgagttc taccagtatg 60
 tgcatttgtc ggaggttggg aactgtgtcg gatctggtat tgggtgtact actgccctac 120
 gaggcattgta caaagaccgc ttccttgaca ggctgtcca gagggatatt ctgcaagagt 180
 ctttcatcaa cacaatgagc gcctgggtga acatgttgct catgtcgtcc actggaccga 240
 tcaagactcc agtcggagct tgtgccactg ctgttgaatc gattgacatc ggttatgaca 300
 ccattgtgga aggcaaagca cgtgtctgct tcgttggtgg ttctgacgac ttccaagaag 360
 aaggttcgtt cgagttcgcc aacatgaagg gctacaataa tgccgaagac gaatttgccg 420
 acgggcgcac accgcgagaa atgtccgccc taacaaaa 458

<210> 7100
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-E12

<400> 7100

ggggccagcc acggtccgt ccactactgg taacttcatt tgccttcttg tcgtgtggat 60
 atcttctcag ttcatatcat gaggtgagat ctgttgatct aaacaccctg aataggggcaa 120

gggtcactgt ggctgtggat tctttcatca ggactgggta tgtaccctcg ctgaaggatg 180
 gaaactcaca agagacaata tttaatccac cttggcgaca tgagccagtt gcaataggat 240
 caagatttgg agatgcgttt caagaacctg cttcgtttct tgctataaaa cctttgttcg 300
 aggatgagag gtatatgttt acatataacc caacaaagga caaggtatat gctttgtcga 360
 aggaccaagc aaagccagat gacattctca aagctgcttt tcatgcacat gtgttactgc 420
 atttcatcaa atgctcacat g 441

<210> 7101
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-E2

<400> 7101

agtacatggc catatcgata atatcgataa aagaacaaac ttaatcctgg cgccggggga 60
 aaatgttcaa atgggcaaac tgggttaaca aggccaaaga aaggagaatc ccgttagaaa 120
 caaaaacaat ttaaaacttaa caagggaaaa cgttccaaaa ttcaaggcta aactgagcaa 180
 tatctgtaat ggcacacctga agctgcttga ctcccaccta gtgccttctt ttactgctgc 240
 tgaatcaaag gtcttctacc tcaagatgaa gggtgactat cacaggtatc ttgcggaatt 300
 taagactggc cctgagagga aggaatctgc tgagagcacg atgatggcct acaaaggctc 360
 tcaaggaaat tgcccggggtt aacctggaac ctacccatcc gataaggctt gggcttg 417

<210> 7102
 <211> 372
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-E4

<400> 7102

ccggctggcc ccacgcgtac gaagcaaaaa cacaagcgc ttaaaccaca ctcaaaccaa 60
 ccgccagcca acaaacaggc ctccctagtcc cgaccagaac tcgctcgtag ccccgagaac 120
 ccgacagcgc gagatggctc ccgagctgat gacagccaag atgaccgcca aggccgcccgc 180
 ggccggcgcg gcggcgccgc cgccgaagcc tgccacgagg gcgtacgtga cgttcctggc 240

gggcgacggc gactactgga agggcggtgtt ggggctggcc aagggcctcc gcaagggtccg 300
 ctccgacctac ccctgtgttg tggccgtgct gcccgcgtg cccgagtcct accgccgcat 360
 cctcgtctcg ca 372

<210> 7103
 <211> 317
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-022-Q1-E1-E5
 <400> 7103

gacccacgac gtacgcccac gcgtccgaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 aaaaaaaaaa aaaaaaaaaa aaagaaaaaa aaaaaaaaaa gaaaaaaaaa aaaataaaaa 120
 aaaaaaaaaa aaaaaaaaaa agggggggcg gcccacaaagg ttcaatcctt agttccgttt 180
 gcttgcaatt tcatacctct tcaaagggtg cccttaattt aatttcacgg gctgtcgttt 240
 aacacccttt tgccgggaaa acccctggct ttccccacct taacgttttt ccaacaaatc 300
 cccttttcac aagggtgg 317

<210> 7104
 <211> 457
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-022-Q1-E1-E9
 <400> 7104

ggggcccagc acgcgtccgg agctgtgctc tgctctgctc tcgcctcgca cggactcgtg 60
 gtaaaggatg gagaccatgt cggctctcgc gaggacggcg ccgccccttg ctgggaccat 120
 tcgcccggccc tcatgcgcgc tgaggccgac ggcgtccctc tccttcgccc ccgcttcaac 180
 gacgccccgc ggccggctcg ggctggggct gagcacggcg ccggcgggga gcgggagggc 240
 ggccagggtt cgcgccgtcc cgcggcgcat cgtcgcctcc tcggagggtt agcaaagcta 300
 cattatgatc aaaccagatg gtgttcagcg tggctcgttt ggagagatta tttctcgtt 360
 tgagaagaaa gggtttttgt tgaaaggctt aaaacttttc cagtgcacca aggacttggc 420
 gcaggagcat tacaaggatt tgaagggata aactttc 457

<210> 7105
<211> 189
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-F10

<400> 7105

cgagaaattg tgcgggacat caaggtgacg cttgaatata tagctcttga ctatgtgcag 60
gagttggcga ctgccaatat cacctcctgc gggttgtcaa gagctatgag ctgcctgatg 120
gggggggtgat cacgatcggc gcagagagat tcacgtgccc ggaggtcgtc ttccatgcat 180
ccatgtttg 189

<210> 7106
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-F11

<400> 7106

ggggcccagc acgcgtccgg aaaatgagca taacagatcg agcagccctg ttattcattt 60
agaggacca ctagtgtctt tgaaggatgt tgagcagcat ggtccaactc ctactaagga 120
ctttgttgta cctaacacag aagaccaaca agaagccaga gatatacagct tgcaggtaca 180
agctgtggat tccatgaaag attgtggcga agtaccagat ggaacaatag aggcttcgac 240
gaatgatgat gaattagaac tgggtacttc tgcagatgta gaaaagaatg atcaacctac 300
cttgctggaa ccaagatcgg agtctgtctc tgtcccagaa ctgtccgtct tggatgaatc 360
tgacgataaa atgcaatgtg gtgtttctgg caaggatgag gaagcacatg tggaggagaa 420
aactgtaact attgctgttg aca 443

<210> 7107
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-F12

<400> 7107

ggggccagca ccgcgtccgg agtcaagctc tgctttggtg tattgggagg ttcgagtggc 60
 gctgatgggt tctctgctgg cacacctggt ggtggtacct tgctgctagg aggtagcgac 120
 agctttggca acagtaacgt tgggtgctgc cagctttggc aacagtaacg ttggtgctcg 180
 ccaggcgctc aacaaaacac ctgaaaccaa agttcgtata gtacctgtca agcgctcgac 240
 aaattgtctg catcggaata tcattagcaa cctcgcggtat tcgagtcaaa tattgaaatg 300
 gtgagctaatt ttgctatatt attgactggt ttgatgaatg aattgatagg tgtgtaaaaa 360
 aaaaaaaac caaaggaaaa caaacagcgc cacaaaagaa caaggaggag ccacgccgac 420
 gagcgaggcc 430

<210> 7108
 <211> 376
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-022-Q1-E1-C2
 <400> 7108

cccgggaggc cccacgcgtc agcacacgcg tccgcatcga cctactccag tgaaaaagcg 60
 tccttctgtg tccaactcta tggccaactc cgctgttgcc aagaacacgt cagcaccatg 120
 ctcaagatca tcaactccaa cctctcggtc tcgaaccttg tccagttcat cttcaagcag 180
 tacaagtgca gtgagccgct ccagctcatc ctctggtaaa gttcctgcaa taacttatag 240
 cagttcttca tcaagtacag tttcttcagt gagccgtcct agctctcggc catccacacc 300
 cactcgtcaa cctgccatgc gttcgtcaac accatctgct aggcggattt ctggtagcaa 360
 taacatgaca tccaat 376

<210> 7109
 <211> 352
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB189-022-Q1-E1-C3
 <400> 7109

ggctggcccc acgcgtcagc acacgcgtcc gccacgcgt ccgcagcttc aacacggcca 60

cggcaccggc gctgctgcc ccggccgaga actgcaacct tgagctgaca ctcgcaacgg 120
 gaccgagcag cagcggcagc tgcgacgccg gaaggtggca ggggaagcgg ctcaaggcgt 180
 cgcccaactc gggctccgcc gccaccgagg tgtcttcac gtcgacggat tcggagctgg 240
 cgcggttcgg ggacatcgac gtcgtggcga cgccggtggc caggtttcac ggcgaggtta 300
 ctangaggat ggacgaggtg gcgcagggcc cgtggatgta ccgctgcctg ag 352

<210> 7110
 <211> 448
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-022-Q1-E1-D11
 <400> 7110

acgcgtccgc aaacacgtcc gccacgcgt ccgatggact tctattgcca catactacaa 60
 ccgaccaaga gcttcagcat ctgaggaatt gcttgctga tcaagtgggtg gttcagcgca 120
 ttgatgagag gttatctgcc cttggcaatt gcatagcctg caatgacat gttgactta 180
 cgcaccctga ccttgacaag gagactgagg agttcattgc agatgtgctt ggggtcgagg 240
 tgtttaggca gactattgct ggaaatatcc ttgtggggag ttactgcgcc ttctctaaca 300
 ggggtggttt ggttcacccc catacatccg ttgaagacct tgacgagctc tccacgctcc 360
 tccaagttcc tcttgctgca ggaactgtga acagaggaag cgaggtcatt gctgcaggca 420
 tgacagtga cgactggact gccttttg 448

<210> 7111
 <211> 330
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-022-Q1-E1-D3
 <400> 7111

acgcgtaagc aaacgcgtgg gcaagaacca ggcggaccgc ccgcctgccg atggcctgcg 60
 cgtggaccgc tgggcccggg ccaggtaccc ggccgtgcac cgcttcgtgg gcttcgtggc 120
 ggacgtcgac gtcggggaac aggcggcgcg cctcgaggcc agcctccagg gcacccgggtg 180
 ggccgcccgc gtcaacgacg cgcgcatggc cgacccggcc tcgccctaca ccgtcgcgca 240

gtacaactcg cccttcgagt tcaccggcac ggtaaccag atctgggtgc tcttccgacc 300
cgacgactac gccagtactt cgtgatgcga 330

<210> 7112
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-B1

<400> 7112

caaaggctag gcaccacaag tgctggggct tcattctttc ttgatggaac attctcattg 60
aaccaaacag ggactgcgaa tcaagggtgct cgagataaaa taattagttt ggcgaaacagg 120
tacatgactg aggtgaggcg attaaacctt ccacagaacc aaacggagaa tgtctaccgt 180

ggtttccgtg aacttgagga gaaattacta tcttcttatt aagcagattg cagtcattcc 240
tcaagatagt gaagaatgat cttgcatctg ttgtaccaca aaaccaagga atagagtcca 300
gggcttctgg attcacctca gcatgatctg t 331

<210> 7113
<211> 464
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-B11

<400> 7113

ggggccagcc cgcgtccgga cgcagcgagc acattcctgg gcaccgcct ggcggaacccg 60
gcgccacaga acgggcgcat cgtggcccgg ttcgggttcg gggtgggagg caaggcgaag 120
cctgctccga agaaggtggc gaagacatcg acctcctctg accggccgct gtgggtcccc 180
ggcgccgtgg cgcgcgacta cctggacggc tcgctggctg gcgactacgg gttcgacccg 240
ttcgggtctg ggaagcccgt ggagtacctg cagttcgagt tggactcgct ggaccagaac 300
ctggccaaga atgaggccgg cggcatcatc ggcacccggc tcgagtcctc cgaagtcaag 360
tccaccccgt tgcagcccta cagcgagggtg ttcggcctcc agccgttccg cgagtgcgag 420
ctcatccacg gccgctgggc catgctcgcc accctcgggg ccct 464

<210> 7114

<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-B2

<400> 7114

cccacgcgtc cgggcgcggg ttgccgagac gcgtacgcgg cattctcctt gggcgcgggg 60
gttcctctcg agtctcggca acgacgaaaa cgaaaatacc gagtcgagtc agcgatgaat 120
cccttcgccca aaaaaccaac accgcgagag gtgatgcgga gcagcaagcg ggacctgacg 180
aatgctacgc gagggatcga gagggacatt gcgtcattac agcaggagga gaagaaactc 240
gttgetgaaa ttaaaaggac agcaaaaact ggcaatgagg cagcaacgaa aattctagcc 300
cgtcagctga tcaggttaag gcagcagatt t 331

<210> 7115
<211> 302
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-B3

<400> 7115

cacgcgtcag caaacgcgtc cgtaaacaaa tggaaagacg tggcaaatga ttcacgcaaa 60
caattgcatg acaaagaaca ggatgttcta gacctgcggc aagaagttat tgggttaaaa 120
cattctctaa aagaggctaa cgaccagtgc atacttctgt tcaatgaagt tcaaaaagcc 180
tggacagttt catcttcact ccaagctgat ctcaagtctg aaaatttaat gcttgcccag 240
aagcacaata ctgagaaaga gcagaataga cagctaaggg atcagatttc tcattctttg 300
aa 302

<210> 7116
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-B4

<400> 7116

acgggctcgc catgctcgcc atcctcgggt acttcatcca ggggctcgtc accggcgttg 60

gcccgttoca gaacctgctc gaccacctcg ccgaccccggt caacaacaac gtgctcacca 120
 gcctcaagtt ccactagaac gttggtgcat cagcatacct gctgccgccg ccgccagttg 180
 tttgctgtgg aaagctagat gcatgcgtgt tgtaaaggaa cctgaagcgt tgcacgcgtc 240
 atgattcatg catggccagc ctgctgcctg taacaacaaa ctagtattga tcttattgag 300
 accggaaact gtattgcaca tggtaaatac atgtacaatt cctccct 347

<210> 7117
 <211> 409
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-022-Q1-E1-B9
 <400> 7117

acgcgtccgc agacgagtgg gcggacgcgt gggcaacaac gacgggaact ggaggaactg 60
 agcgggtgggg tccgctgagg cctagttatc ttgttcgctt ctgctaccgt gttcacccta 120
 gtctagaggg ggtttatctt cgtctgtggt cgtctcgtgt ccgtttggtt cgtttcgtgt 180
 tcattgttgt tgttgcccat ctgtgttttt gaccgcaagc tcgctcctct gatgttggtta 240
 gtgatgtcta caatcgcca atcccagacc tgcattgagc tccaccgatt atcttatctg 300
 gctatacctg cagttgtgca tttgattccg acgggcctaa acctgaacac gccaatatta 360
 aacattgtac aaactacaag tgctccaata aagaacacaa agattcagg 409

<210> 7118
 <211> 368
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-022-Q1-E1-C1
 <400> 7118

ccggctggac ccacgcgtcc gcaagaagtt cttgaagggt cacgttgagg ctgaccagat 60
 cgtcgcttgg ttgaaggagt actttgatgg caaattgacg ccgttcagga agtctgagcc 120
 tattcctgag gtcaacaatg agcctgttaa ggtggttgct gctgacaacg tccacgactt 180
 cgtcttcaaa tctggcaaaa atgtccttat tgaattctat gccccctggt gcggacactg 240
 caagaagctg gcgcccattt tggacgaggg agccaccact ctccagagcg acgaggaagt 300

cgatgattgct aagatggacg cgactgccaa tgacgttccc agtgagtttg acgtccaagg 360

ctacccga

368

<210> 7119
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-021-Q1-E1-H10

<400> 7119

ttcgcgcggt ccacccacgc gtacggatga tcttctctc tatgacattc taaatgagtt 60
ccagaaaggt cacagccaca tggctgtggt agttaaacga acaaaggaag caggagtatc 120
cactgaaaac caaaagagca caactgcaga ttataaaata aacccaaaga tgctcatgct 180
gatggctcat ccccttctta tgctaacaac actgctggaa gtcgtagatt taacatagag 240
aagcatggag acgggcgctc atgtaataag aaatcagaaa agaagcggga aaatattctt 300
gattttaaca cagatccact tccaagctat tcaatggatg aggcggcaat ccgaataatc 360
acgatggaaa atgttatggg agaacttcta caggaagaaa tctatgatga aacagatgag 420
tatgtttaag ttcaaaac 438

<210> 7120
<211> 283
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-021-Q1-E1-H12

<400> 7120

ccacccacgc gaccgcaaac gcgtccgagg acgcgtgggc gacgtgcggc atgggtggga 60
ggcgcagcaa cgggcagttg aagttctggg gcttcgacgc gcacaacgaa gccgtcgagc 120
aacgacgcaa gcgatctgct cgtctgcacc ggtatcgacg tcgaggtctt tacggcggag 180
gtggtcgatt ccagcagcat cgctgagctg aggatctact gcagacttct cgggaacgac 240
gactttgatt gcgtgagcct ccactctggc cccgaaatcc ggc 283

<210> 7121
<211> 346
<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-021-Q1-E1-H5

<400> 7121

aaggacaggc agcgggttcgg gtcgtcgcag ctgctgcacg attttgtggc gtgagcggct 60
gcactggacg tcgttgggga ataacgtgcg cggacggcgt cagaagcctg ggatggccgg 120
ccggcgccgc cgcgggtata cctaccaacc atatgatggc cgtcatggta catggtctca 180
aattaaccag caaggttaag catgcatata tacatacaca catatatata tataagggtg 240
ggtaagtgag gtagcataag cagggttaagc tgtatatgat atgaggtgtg gtataaagtg 300
tagggattat tattggtatt atttttggta gcttgaagat tcgtct 346

<210> 7122

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-021-Q1-E1-H7

<400> 7122

aggacgcgtg ggcggaacgc tgggcgatgg ccggcacccc catcaagggtg ggctccttcg 60
gcgagggccg catcaccatg cgcaagaccg tgggcaagcc caagggtggc gcgtccggca 120
gcccctggta cggccccgac cgcgtcaagt acctcggccc cttctccggc gagccccga 180
gtacctcac cggcgagttc cccggcgact acggctggga caccgcccgg ctgtccgcgg 240
accccgagac cttcgccaag aaccgcgagc tggaggtgat ccactcccgc tgggccatgc 300
tcggcgcgct cggctgcgtc ttccccgagc tgctctcccg ca 342

<210> 7123

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-A10

<400> 7123

ggggccagcc acgcgtccga aaaaacacac tagtgtacca acaatggcag ccaaaatatt 60
ttgectcctt atgctccttg gtctttctgc aagtgtgct acggcgacca ttttcccaca 120

atgctcaciaa gctcctagag cttcccttct tccctcgtac ctctcaccag cgggtgtcttc 180
 ggtatgtgaa aacccaattc ttcaacccta caggatccaa caggcaattg cagctggcat 240
 cttaccttta tcacccttgt tctccaaca atcatcagcc ctattacagc agttaccttt 300
 ggtgcattta ttggcacaaa acatcagggg acaacaacta caacaacttg tgccagcata 360
 ccttgctggc tactctcagc aacatcagtt tcttccattc aaccaactag ctgcagttaa 420
 etc 423

<210> 7124
 <211> 447
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-022-Q1-E1-A12

<400> 7124
 ggggccagcc acgcgtccgc aaacgacgtc cgcggacgcg tgggcgcaat ggcactcgtg 60
 tccgcctcct cgtcctccac caccgccgtc ggggcgctcc ccaggaatgg gcagcagcgg 120
 gcgtcgtcgt cgttggttctc ctctcctcc tcttctcct tctcgtcgg caagacgctg 180
 ctgaggcagg ccgaggcagc ccggccgtcg ttccgcgtgc gcgccgcggc ggattccgac 240
 aggccgatct ggttccccgg cagcagccct ccgccgtggc tcgacggcag ccttccccggc 300
 gacttcggct ttgattcctg gggcctcgga tctgaccgg agagcctgcy gtggaacgtg 360
 caggcggagc tgggtgactg ccggtgggcy atgctcggcg cggcgggtat cttcatcccg 420
 gagttcctga ccaagatcgg ggtcctc 447

<210> 7125
 <211> 424
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB189-022-Q1-E1-A2

<400> 7125
 agcacacgcy tccgatccgt ttggatgatg cgcaacatta ttcaattcaa cacattggca 60
 aatcaggctg tggagcgggc agctggtact gacggccata agataacata cagtgtcata 120
 aagcatcggt tgggggatct attttatcgc ctagtatccc aaaagttcga ggatcctgca 180

gaaggcgaag aagctttggt cggcaagttt aagaaactgt acgacgacct taccactggg 240
 ttccgcaacc tagaagatga ggcacggtga actgctgtag attttgtgta agacaataat 300
 ggctgccaaa tggtttataa ggtacggaag ttgtanattg agaccatggt tgagaatttt 360
 cccaacggt aatcaattcc ttggcaacaa caatttttagc catcattgct ggatgggcac 420
 cctg 424

<210> 7126
 <211> 349
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-022-Q1-E1-A3

<400> 7126
 acgcgtcagc caacgcgtcc gggaccgtta actctccagc tccccctcgc tccgttcctt 60
 tccgccc aaa tcaactgggac caccaccgcc ttcttcaaga tcggcgggcg ggcaccggcc 120
 ggcatgaca tccaccgtca ccacaaccgt tgggtgcggg gggctccccg tccgcccgtt 180
 gtcgacagcg accagaggac gccacgcag atgcgccgtc cgagcccagg ccgcgggagc 240
 ggatgcctcc aatgataagt cagtggaggt catgcgcaag ttctccgagc agtacgcccg 300
 ccgctccaac actttcttct gcgccgacaa gacagtcact gccgtcgtc 349

<210> 7127
 <211> 340
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-022-Q1-E1-A4

<400> 7127
 cccacgcgtc cgcggacgcg tgggtttttt tttttttttt tttttttttc aatctgaaaa 60
 cacatgcact gatgcacact tgtgtttgtg tagaggcgct tatatatcat ccaaaagaca 120
 agtcactcac acgcaaattc gcattggcta acagaagcta tttggaatgc agttcagtcg 180
 actaacaacg taggtacccc cgtctccttg ttttgccgat gttggcgatg ccatcatatg 240
 tcagcagcaa ggaagttgcc agacaaggaa acctgccaat cggagaagca gcagcagtga 300
 acgttcaaga tccagagtac aatcgacaga catattttga 340

<210> 7128
<211> 232
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-021-Q1-E1-F4

<400> 7128

cgcggtccgac cacgcatccg cccacgcgtc cgcccacgcg tccggactag ttctagatgg 60
cggtggcgct ttctccggca aggacccaac caagggtgac cgcagcggag cctatgtcgc 120
gaggcaggct gccaagagca tcgtcgccag cggccttgct cgccgcgcca tcgtccaggt 180
gtcctacgcc atcggcggtgc ccgagcctct ctcggtgttt gtcgacacgt ac 232

<210> 7129
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-021-Q1-E1-F5

<400> 7129

atccctccgc cactcccatc catctcctcg ctcccagtc cccggaagct acgaagcatg 60
gcgtccgtca ccgcccgcgc cccggtcgcg gcccttcgcc cgtcgtcggc cttccttgge 120
cactctagcc gcctcggccg caccgcgtcg cccacgagggc gcagcctcaa ggcggaggcc 180
aagggcgagt ggctccccgg ctttcctcc cctcctacc tcgacggcag cctggcggggt 240
gacaatggct tcgaccggtt gggcctggcg gaggaccccg agaacctgcg gtgggttcgtg 300
caggcggagc tggatgaacg ccggtgggcc atgcttggcg tggccgggat gctcatcccg 360
gagggtgctga ccaaagccgg ggctgatcaa agcgccg 397

<210> 7130
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-021-Q1-E1-F7

<400> 7130

agccgcctt tttttttttt tttttttttt tttttttttt tttcaaaaat agttcatctt 60

ttatttaatt atccattact cactgagcag aggtggtctc tacaccctca aggccaagcc 120
 cttacaacac accagcatat ttctcagtta acccgttgaa ttaggcctct ttaagcttct 180
 tgacggacat tgctgtcaga agcgaatcag acccagcctg atggcaaatt ccaatccttg 240
 aaacatcaat gcagtaggca ccatccgtgg gtcagcatca gcagcagcag aagttcttca 300
 tccgcgacga taagccattc atgagccaca tgggggtacat ca 342

<210> 7131
 <211> 449
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-021-Q1-E1-F9

<400> 7131
 gccacccacg cgtccgcaga cgcgtggggc ttgaccgcca ccgttgacgt cgtcttccgg 60
 cgaggtagct cgccggaaga cctcacctgg acttttccga cgcaccctcc acacactctt 120
 taaccctccg gaatggccgc ctgcttctag ctcgtcgacg cccaatctc cgcttgcttc 180
 ctcgacagcc ccatccgcct cttctcgctc tcgctacggc tcctctgcct gttcgccatg 240
 gcgatccgca tcaccgtctc ctactccggc tacgtggcgc agaacctcgc cgcgtcgctc 300
 ggccaccgct tctcctccgc ctccgcctcg ggcagccgcc tcctccatga cggcgccctgg 360
 cgcccccttct gcattctcac ctccaaccgc cagcccgagc agcaccgcgg gagccgcagc 420
 gaccgcatg acggaagcga ctacaaaca 449

<210> 7132
 <211> 361
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-021-Q1-E1-G11

<400> 7132
 gtaccggtac gtacattcgc ggcgtcacc accggtacgg accttgatc gcagataatg 60
 atttgttttg agaccagagt agtctagagt agagattagg ctctgtaaaa ttagatagct 120
 aggattagaa taactgggca aacgaatata tggatatgt cgatatgtaa agatgcaata 180
 tagagcagca tatatggtac cgtcgttatt agcatttttt cagaaaatgt aataatattc 240

aaaacacaaa ctacggggca tccttggttg caaacagctt gaggacgggc cagacgcatg 300
 ccgactacaa gattccaata cagataggaa gctgcacctt gctgctccgt cgcattggaaa 360
 g 361

<210> 7133
 <211> 362
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-021-Q1-E1-G2
 <400> 7133

gggtccgagg acgcgtccga ccacgagtcg ggggtgctcag gatgcacccg ccggggcccgc 60
 tgctgtcgtg ggcgcgcctg gccacgtcag acgtgcacgt cgacggggcac ctcattccccg 120
 ccgggaccac cgcgatggtg aacatgtggg ccattacgca cgaccagac gtgtggggccg 180
 agccgacgga gttccagccg gagaggttca tgggggtccac cgagttccccg atcatggggg 240
 tcggcctcaa ggcccccccg ttccggggccg gccggcccaa ctggcccggg aaaaacctcc 300
 ccatgggcac cgtggccttc tgggtcgcga ccctgctgca cgaattccag ctgctcccct 360
 cg 362

<210> 7134
 <211> 432
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB189-021-Q1-E1-G5
 <400> 7134

aatacactag ccctgatgtc ccaggtttta tcctagcaac aggatttggt gcattcactgt 60
 atttcctggc aaagaaaaat atgaacttag gtaaggctgc attgatcact gtcggggggac 120
 ttgcagctgg tgcaactgtc ggatctgcag tggaaaattt cctgcagggt gatatcgtgc 180
 cctttctagg catccactcc cccgccgtcg ttgtcagtga atttattctg ttctcccagt 240
 tgttggtatc actgtttgtt aggtaggatc tgaaatcaag ctgtcatcct gatcatggca 300
 tgtaagtaac tgaaatgggt cgtgttcaaa cttcaaaggg tcagggaat gcttattttc 360

cgctcaaggt gcaagcagct gtgtatagca nacaatacat ggacatctct gtcccttata 420
aagatcactt gt 432

<210> 7135
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-021-Q1-E1-G7

<400> 7135

agctgtgctc actgcctact ttttcattct aggcattggt gctctctctg caacactgct 60
tccttctata aaacgttttc ttccaaaaga gtggaatgat aatctcattg tctggcgtgc 120
tccacttttc cactcactct cgggtggagtt cacaaagtcc cagattgttg cttcaatacc 180

tggatttttc ttctgcttgt ggtatgcgtc aaagaagcat tggcttgcaa ataatgttct 240
gggattggct ttctgtattc aggggattga gatgctgtca ttgggatcat ttaaaaccgg 300
agccattctc ttgggtggac tttttgtgta tgacatttcc tgggtgttct tcaactccagt 360
tatggtcagt gtggctaaat cttttgatgc tcctataaag cttctgttcc tactgcggat 420
gatgc 425

<210> 7136
<211> 83
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-021-Q1-E1-D5

<400> 7136

cgacccacga gtccgaccac gcgtccgcc acgcgtccgc ccacgcgtcc gccacgctt 60
cagcggacgc gttcacggtc gtg 83

<210> 7137
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-021-Q1-E1-D7

<400> 7137

accacgcgtc cggctctgcta gtgttggaga gaagagaata cactacacta cgcattggcga 60
 agcagcagca gggccagggc atggcggcag tggcgctggg gctgctggg ctggcggcgg 120
 cggcggccga gacggcgctcg gcggtctcgt gcaacgccgg gcagctggcg gcgtgcgcgc 180
 cggcgatcac tgccggcgcg acgccctccg cgtcgtgctg ctccaacctc aaggcgcagc 240
 aggggtgctt ctgccagttc gtgaagaacc ccacctacgg gcgctacatc aacagcccca 300
 acgcgcgcaa ggtcgtcgcc tcttgccggc tctccgtgcc gcgctgctag tactagtacg 360
 tgtgctgtgc atgcatgcat gtacgtgcgc acgtgggctg atcttctcgc ttgtttcgtg 420
 tcttgccgcg cgccatcagg tgt 443

<210> 7138

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-021-Q1-E1-E12

<400> 7138

cagacgcgtg ggcggacgcg tgggttccg cgacatgtcc ctcatgcgcc gcatggagat 60
 cgcggccgac tccctctaca aagccaagct tatccgtggg ttctgccacc tctacgacgg 120
 ccaggaggcc gtcgccgtcg gcatggaggc cgccatcacc cgctccgatt ccacatcac 180
 cgcctaccgc gacctgtga cctacctcgc ccgcggaggg gacctcgtct ccgccttctc 240
 cgagctgatg ggccgcgagg ctgggtgctc ccgcgggaag ggcggatcca tgcatttcta 300
 caagaaggac gccaatcttct acggtgggca cggcatcgta ggcgctcagg tgccctcgg 360
 atg 363

<210> 7139

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-021-Q1-E1-E3

<400> 7139

ggtccacgac gcgtccgacc acgagtcgc ccacgcgtcc gaatcgtctc tctcccgctc 60
 tccctccac cgccgcagcc gccgcgtac ctctctctc cgcgagcag ccaccgccac 120

cgccggaaat gaagaccatc ctggccacgg agacgatgga catccccgag ggagtcacgg 180
 tcacgggtggc ggccaagctg gtgacggtgg aggggcccgc cggtaaagctc acccgcaact 240
 tcaagcacct caacctcgac ttccagctgc aggacggggg tccaagccc aaggtcaacc 300
 cctggtttgg aaccgcgca accatggccg caatccgaac ggccattccc cagttcaaaa 360
 a 361

<210> 7140
 <211> 363
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-021-Q1-E1-E5
 <400> 7140

aaaagggtga aagaaactgt gaaggagggt ggtgctgggc tagagtgtgg tattggggta 60
 gatgacttcg atgaatggga ggaagggtgac atcatagagg cattcaatac cgtgaataag 120
 gcaagaacct tcgaggaggc ctctgctacc gtgactgccg cactcaagga tgcaggggtc 180
 cagctgtaga attggcaaca cgctgatact cttttttatt aatggtatga aatgttaatt 240
 tatatatact ttgaagctga atgggtgagct gaagctattg tgctgaagct gttgtgagct 300
 ggaccgggtg accgtttccc tgattccttc ggtggtggct gaagctgaat ggtgagctgc 360
 tgg 363

<210> 7141
 <211> 134
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-021-Q1-E1-E6
 <400> 7141

aaaaaaaaa aaaaaaaaaa aaaagaaaaa agaaaaaaga aaggagggca gcgtcgatag 60
 cgatcatagc ttactttatc gtcaaaacga aggtctctgc tcgacaatgt cgtcactgta 120
 tttcacttca ctgg 134

<210> 7142
 <211> 367
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB189-021-Q1-E1-E7

<400> 7142

accacgcgtc cgcccacgcg tccgaaactt cttcgttaata ctaaaaagtt ttattcaggt 60
cacgnagctt attgatcgta attcgtacag gagctgagtg cgtgcacgta cgatggccaa 120
gtacgatgac cctgcagaac cagtcagcca cagcaatcca cacatgcact tcgacgtcac 180
acggggcgctg cgcacagaca caccaagcgt cggcatcagt ggcttactac caggagggtgg 240
actacagctc ggaggaggtg aggtcgggtg cccccgccgg agtcggccgc cacggcgggc 300
gcateccacca agacgtcgtc agagagagct tcccgagggt cgacacgggc ccaagcgccg 360

gcgccac

<210> 7143

<211> 301

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-021-Q1-E1-E8

<400> 7143

cgcgctccgcc cacgcatccg ctagttctaa atcgctagtg ggaccttttt ttatgttttt 60
ctgcccattt ttattgctgt gcaacaactc catgttattc gtggctgtgg taataatgct 120
ctcttcttgg gtttcataag cataattctt ggtctccgaa aataattccc accatgtgta 180
agagcgccgg atcatgggca tectccgga agtaaagtt ctacacctcc acaaatcatt 240
acttcaacct cacattcatt tectctacgg taggaataac cttggcttag gtttcaaacc 300
t 301

<210> 7144

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-021-Q1-E1-F11

<400> 7144

cccacgcgtc cggatcggtg ctgttcgagc ggggtaagct tagccagcct ctagcaagag 60

caagagcaag ggcaaagggc atggcggcgg ctgtctcctt ctcccgggtg cgagctctcc 120
cgacgtggtc cagctcgggt tccggcgacg accaccacgc ctactccgtg ttggcgacgt 180
cgtcgggtgc agccagacct cggctcggcg cgcgaccgct gcggtcgccg gcgcagatga 240
tgggcaacgt gaacgatggc aaggggctgt tcgcaccgct cgtcgtgggt gcgcgcaaca 300
tcattggccg caaacgcttc aaccagctga gggggaacgc aatcgcgctg cactcccagg 360
tcataacga gttctgcaag accatcggcg cccactctaa tcagcggcag ggcctcatcc 420
gcctcg 426

<210> 7145
<211> 421
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-021-Q1-E1-B9
<400> 7145

cacacgcgtc cgcccacgcg tccgcccacg cgtccgaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaataggg aggccactct aagggttaga 120
aactttatct tggcttccat gcaatgtcat ttctttttta ttctggccgt caatttcaat 180
tccctggcct tcgttttata cccttctttt cgggaaaatc cctttctttt cccattttag 240
ttttgttaca tcccgctctt ttttcaagtt ctgggttttt atccatgtgc ccctttcggt 300
tccccctttt ctacatttgg gccccctttt tgctgacttt aatttccctt ggggggtgtc 360
attaattccg ggggttttcc tggttccgtt caacttgctc gggccccctt gcttctccct 420
t 421

<210> 7146
<211> 428
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-021-Q1-E1-C10
<400> 7146

cagacgcgtg ggccgcgacg gaagctcctc acaaaccgtt atcgtcgcca tggcagccgc 60
cgcgcctgca agctccgtga aggaagtgtt gccatctccc ctgacctcg cctccgagcc 120

ccctccctc ttcgatggca ccaccaggct gtacgttgcc tatcattgcc cgtacgcgca 180
 gcgcgcttgg attgccagga actacaagggt tttgcaggac aagattaaga tagtcgcat 240
 cgatcttgct gacaggccaa catggtacaa ggagaagggt tatccagaaa acaagggtgcc 300
 ttctctggag cacaacaacc aggtgaaagg tgagagtttg gatctggtca agtacattga 360
 cagcaacttt gaaggcccat cgttgctccc agaggatcct tcaaaaaagc agttcgtgta 420
 ggagctgc 428

<210> 7147
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-021-Q1-E1-C12

<400> 7147

cccacgcgtc cgcacacgcg tccgcggacg cgtgggcgga cgcgtgggag gacgcgtggg 60
 caaggctatg gaggaagctg atgtgaagac taagtgggag aacagctcat ggggcaagaa 120
 gctgattgtc cagaagagga gggctgcact cagtgacttt gacagggttca aggtcatgct 180
 ggcaaggatc aagatgggtg gtgctatcag gcacgagctc tccaagctga acaaggcgtc 240
 cactgcttaa gtcccttttg gtggatgaca tgtagttttt tggtttcatg ttggatcagc 300
 aatttgtttt gagtggtgtc aaagccagaa ttagtaatat gtttcctgtg taccagtttc 360
 aaactgtcat caaatgggtg gtgctctgga tattttgtcc ggaatgatat g 411

<210> 7148
 <211> 316
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-021-Q1-E1-C8

<400> 7148

aagacgcgtg ggtatctctg cagaatgaac aggagtgggc aatatgtatg ggaagatcac 60
 cgaccgcgat ctggtgtctg gaaaggcact agtgggtggg aagctatttc ctttaatggt 120
 tgtgatgatg atcagacctc tgcagatacc tctgctttat caaagatcac ttcgactggg 180
 gcaatgacat tctgcttcat ccaagctatt gaacgtggac agggcaccac ctacggtagt 240

atcctgaact ctatgcgttc cacaatacgc aacacaggtg actcagcggg tgtatgtggc 300
cgtgctgtta catcac 316

<210> 7149
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-021-Q1-E1-C9

<400> 7149

ccaccacgc gaccggatac acgaccggca tcaagatgtg tactgcccag taccctgatc 60
atttccttaa ggactaactt agtggccatt tatggagcag ttactcagc ggtagacaca 120

ttgggcgacc gctacgacga acgcaaaggt aagggatcac gcagggcatc tcaactggccc 180
gttcggtagg gcttacatga gagaggaaat gcgactggca tgcctatgcg cctgcatgtg 240
gcgctgcagg cggatcgtaa agagccaggt gaacactcac cgcacccctc gctcctgctg 300
ctgggcatgc tgccagggag acgctgctgg acagactacc taactgcaca gctgagcaga 360
gagacgag 368

<210> 7150
<211> 86
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-021-Q1-E1-D10

<400> 7150

cacgcgtacg cacacgcgtc cgcccacgcg tctcgatcc tccccatctt ttgtttgatc 60
ttcacccttt tggtcatggt cctagg 86

<210> 7151
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-021-Q1-E1-B8

<400> 7151

accacgcgtc cgcccacgcg tccgagctgg agccggaggc caaggcgctc cttgaagcgg 60

cgctgacgga agccaacatg gagagggagg agaagatcct caggggcacc aagcactctc 120
 cgcatcctcc cacctgggac cacgcgagcg acgccgccga cgccgacgcc atcgacgacg 180
 cgtcctcaga tgccagcgcc agcgacgcgg agctgtgctg catctgcttc gaccaggcgt 240
 gcacgatgga tgtgcaggac tgccggcacc agatgtgctg gccgtgcacg ctgcgcgtgt 300
 gctgccacag caagcccgac ccggtgacgc tagcgctgcc gtcgccagcc tgcccgttct 360
 gccgggcgag catctcgcgg ctgctgctgg tggcccgggc aagcagcgac gacgcagaca 420

<210> 7152
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-021-Q1-E1-A10

<400> 7152
 cacacgcgtc cgacatgttg tgctccaata caactgtacc aatacaattc ctgaacaatt 60
 gcttgaacag gttattgttt ttgttgatgc ttctgaggct gatgaatttt tagaagttgc 120
 ttcgaagcct ttagaatcat taccatatga ttctcctggg cagacctttg tcgcttttga 180
 gaagccagaa ggtgtcattg ctactggcaa gttctcaa atcctgaaat tcattgttaa 240
 ggaggttgat ccatccacgg gtgaaactga agatgatggg gttgaggatg agtaccagct 300
 tgaagatctt gaaatagttt ctgctgatta tatgttgaag gtgggagtat ctaacttcgg 360
 aaatgcctgg gaaaacatgg attcagagac tgagcgagtt gat 403

<210> 7153
 <211> 393
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-021-Q1-E1-A12

<400> 7153
 caccaccgga gctcccatca tcggtctatc cctccgtgtc aacccccctc tcagaagttc 60
 taattgcagt tcagccccctg gccggtccgc cgggccaccg gaaggagccg ctgcgccgag 120
 gaagcccccc atctccttgc cctgcggcgg gtttatgggg ttctcgctgt accccatgaa 180
 gacgtccacg cggttgctct ggagcactag cttcttcgcg cataagctca gtcctcctc 240

ctgcttcttc tgagcccgcc ccacccgcgt cgatcacctc ggcgggcgcc cgctgttgct 300
 gcgcggtcct agcacccggt cgagtgtgtg tgtttgtgtt ctttgagttt caagattggg 360
 ttttgttgcg ttattgggga gacgaaggga cta 393

<210> 7154
 <211> 441
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-021-Q1-E1-A6
 <400> 7154

atggcacaca gcttgcagaa tacacacagc cttatattga gtcagggctt gtgatagtag 60
 cgccggtgaa acatgtaact tcaagtgcac gggctttcct tgaacctttc acattggaga 120
 tgtgtgtgtg cacagttgct ctttttattt tgggtgggcat agtagtgtgg cttcttgaac 180
 atcgtactaa tgaggaattt cgaggggtctc caaggcgaca agtcataaca atgttatggg 240
 ttagcttctc aacaatgttc ttttcacaca gagagaacac tgtaagcaca cttgggcggt 300
 tcgtgctgat aatatgggtt ttcgttgtgc tgatcatcac ttcaagttac acagctagct 360
 tgacgtcaat cctcacagtc caacagctct caactggaat tacagggatt gatagtttgg 420
 tttcaagttc tttacctatt g 441

<210> 7155
 <211> 344
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-021-Q1-E1-A7
 <400> 7155

aatggcacac agcttgcaga atacacacag cttatattg agtcagggct tgtgatagta 60
 gcgccggtga aacatgtaac ttcaagtga tgggctttcc ttgaaccttt cagattggag 120
 atgtggtgtg tcacagttgc tctttttatt ttgggtgggca tagtagtgtg gcttcttgaa 180
 catcgtacta atgaggaatt tcgaggggtct ccaaggcgac aagtcataac aatgttatgg 240
 tttagcttct cagcaatggt cttttcacac agagagaaca ctgtaagcac acttgggcg 300
 ttcgtgctga aaatatgggt gttcgttgtg ctgattatca cttc 344

<210> 7156
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-021-Q1-E1-A8

<400> 7156

acgagcgtgg gctctctcct ttctcgacga cgactgggcc accgtcgctg ccgcctgccg 60
cctgccgccc tgcgccaggt gccaaagcagc caggtgttct tggggccctt cgccggcgac 120
gagcaccacc agctgaaaga tggcgaggat accgtctctg aagagcctca atgcgtttcc 180
acatgcggaa gagcacttgt tgaagaagac ttactctggc gctgttgtga caatttttgg 240
gctacttata atgattacac tgtttgtgca tgagctgcag ttttatctta ccaacctaca 300
cgggggca 307

<210> 7157
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-021-Q1-E1-B6

<400> 7157

atcagcttac taggatgaag cctggaacgg tggcactgct cattttgttg aacatgatgt 60
gcatagttgc atactttgat catggaagct ttcctggaac gatggccgaa gaaaccacct 120
tgctggcaaa ttcgtatgga agaaatgaag gaaccaaggg catacatcgt ggaagaaagc 180
tgatggacgc cgggtactgat tcaaaccgtg gggtttctat cagtgatatg cgtcacataa 240
tgagctcagg caaccctcat ccttagctcc agctggttgc attccctaaa gttcgtacat 300
gtatagcctt ccactcatca tatgctgggt atccgacctt tagacacata cggt 354

<210> 7158
<211> 104
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-021-Q1-E1-A1

<400> 7158

aagagagaga cgcggagcca ccgcgttccg gagagagacg cggagagcca aggcaaggca 60
gctgtcgccg cagcgacgat gtggagctcg ggctctgacc gcga 104

<210> 7159
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-G11

<400> 7159

agcccacgcg tccgggccag aaccctagtc acttccccgc cgccactcc atggaggacg 60
acgccatctc gacgctcatg gacatcgacg actcgccgct cagcgctgcg ggggccgggt 120
tcctcgacga ggaggacggg gaaggcgaga tgttcttcgc cccgcaccgc gcggcccgcg 180
gcggcgctgg cgatgccgc gggccccctcc cttttccgg gttcttcaac agcttcgacg 240
gcgccgattt cgacgacgac gacctgcct gagggaaactg ccgcccgggt cggtaacgga 300
tgttgttcgt ggatcgcgaa tcgtgttatg tcgataccgt gatgggggtct ctttaattagc 360
gcatcgattc agactcgttt gggcaatctg 390

<210> 7160
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-G12

<400> 7160

gccatttgaa cccccacgt ctctcgcct cgttcccat ttgctgcgtc tccttgcccg 60
cgccgcgct cgccgtttgc cctcgtctc cgcaccgcgc gctgttgctc atccttgctc 120
agcaaaaatg acggctggct acattgttg ctcactggc ggatcctttg ccattgcata 180
cctgtgtgac acatttatct ctgacaagaa ggcatttgga ggtagcacc ccaagactgt 240
ttctgagaag gagtgggtggc aagccacaga caccaagttc caggcctggc ctgcactgg 300
tgggccaccg gttgtcatga accccatca 329

<210> 7161
<211> 417

<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-G3

<400> 7161

cggacgcgtg gggtgagcgc gactggtgct ctcttactaa aacacttctg gacattcttg 60
ccaagagaag cctggccagc gaggaactat caaaggagac tatggagatg ctggctgaga 120
ttcacctcct gaacagagca gtaaaaagaa agagtaggaa catggtgcac ctacttgtga 180
agttcgttgt aatttgcccc gacaattcca aggtttaccc ctcccttccg aacttgccctg 240
gccctggtgg tttaactccg ctgcatcttg ctgcgtccat cgagaatgca gaggatatag 300
ttgacgcctt gacagacgac cctcaacaga ctggtgtaac ctgttggcag acagttctag 360
acgacgacgg ccaatctccc gaaacatatg ccaagttgag gaaccataat tcctata 417

<210> 7162
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-G6

<400> 7162

gtctcgccaa gtcgccatga tgcagcagcc cccgccgcag cagccgcagc cgggcatggc 60
gccgcctccg cctccgcaag ctgctggcgg gcaaccaccg caatgggggtg ggattcccc 120
gccgatgggg caacagtacg gggcaacgcc tccgcagcag cctccggcga tgtggggcca 180
gcctccgccg caggcgcaact acgggcaggc accaaccctt cagcagtact acgccgcgcc 240
gccggtgccg gtgcaagcgc cagccgcccc cgctgcggcg gacgaagtca aga 293

<210> 7163
<211> 259
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-H11

<400> 7163

gtgcgctatg ccgcagcttg gatctcgccg tgggccgtgt cgtgtgtttc ctctgtctct 60
gctatgtatg tcatcactga cgggtgtgtg aggttggggt catatatatg cttgtaatgt 120

tagctggttt gaggtgtgga ctacgagagt acttttgttc agtgtctggt atctagtagc 180
tgaaggtgtt tgcttgaact ctgtgaactg tgatgtggga taatgctaag aagatgaata 240
gatgatcggt gggttgtct 259

<210> 7164
<211> 421
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-020-Q1-E1-H3
<400> 7164

cgaccacga cgtagcggac gcggtggcac gcgcgcagtc actcacgcac gccccagct 60
ctctccttct cctgtctgc tcgctcgcca tggacgtcc gagcagctgg aagagtcctg 120
cgcgcgccaa gtgaccggag aagctgcgag atcagagtag ttgcttgccg ctcccgtgcc 180
accaaattag attggacgta gctagcagct agctgagccg tagtgcgat cggcagctag 240
gctgctagct cgatcggtat agctgcgtac tagtggtgtc gcagcaaaag caataccagc 300
ttcagttacc gatccggtgg taaaagcaac ttttttggga catggcggcg gagggaggcc 360
cggtgctggt gaggcagct ggcggtgtg aggagctgcg gcagctccc cgggggttcc 420
g 421

<210> 7165
<211> 329
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-020-Q1-E1-H4
<400> 7165

aggcgatcag acaaggtagg caggcactcc tcacgagccg gcggacgcga acacgcagct 60
gtttcctctc ttctctctcg cctctcgagg ctctcctcc gcaacagcgc gcgcgtatac 120
ctgtacgcat tcagcagcgc acggcatgac gaagcaaaag atagtgatca agctcagcat 180
gccatctgag aagagccggt ccaaggccat ggtgctggtc gccagaacgg acggcgctcag 240
ctcgatggag atcgccggcg acggcaagga ccatctggtg gtggtcggcg tggacgtcga 300
cacgtctgc ctggtcatgt gcctgcgca 329

<210> 7166
 <211> 417
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB189-020-Q1-E1-H5

<400> 7166

agcgccctggg caggtgcagc cagcgacgtc gccgaaggcg ctgttgaggg ttgccgtaga 60
 ggtgccccgat ctggagttga agagatcttc taatgctggg agtagtgat ctgcagaaca 120
 actgcagttt gtcctatca ttcgatctgg tagctttgct gatattggac ctaggcgggt 180
 catggaagat gagcatatta gaattgatga tctttctggg catcttggct cactgttgat 240
 ggtctctgcg cctagcgcg tctacggggg gtttgacggg catggggggt cagatgcagc 300
 agcctacatg aaaacacatg caatgagggt gttctttgaa gatgctgact tccctcaagc 360
 atcacaagag gataaaatat ttgctgaatc tggtgaggat tcgggtccgca nagcttt 417

<210> 7167
 <211> 311
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-H7

<400> 7167

ccacgcgtca gtaatccttg gtgatagcac atcggatatc ctcaaggga attcatctcc 60
 tcaaacttct gttaaagtgg tgtcaccaa caagaagcga atctctcccc tgcgaatggg 120
 taccgggcta tctccaatct gtaggagtg caggaagctg attttaaagt ccattccttc 180
 tttcccttcc cttggcggtg atgtaaaca tgaggatcca gaaaccaagt tgccagcccc 240
 ttgaatttac catattttgt cactggttta tttctaccat accatctgat agtggacagc 300
 caagcgactt t 311

<210> 7168
 <211> 356
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-H9

<400> 7168

cggacgcgtg ggcgaggtga aggcccggct ccccgccgtg gactacggcc agtccttggc 60
cgagcacgac gagcagcagc agtccggcga ccacgactgc gacggggacg ccgcgtcgtc 120
ggattgcatc gtgtgcctcg agacgttga ggcgggcgac gaggtgcggc ggctgggcaa 180
ctgcgcgcac gccttcacc gcgcctgcat cgaccgttg atcgacctcg gccgcgcgac 240
ctgcccgtc tgccgtccg acctcctgcc gcgcgcgcg ggctgggcca gccggctcgg 300
cctgggcccg ctcacgcgcg ttcggtgagg aggaccgtct tccagggcag ttttgt 356

<210> 7169

<211> 413

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB189-020-Q1-E1-F7

<400> 7169

agccacgcg tccgcggacg cgtgggatct ggatacctcg tggactttat ggtgatgagg 60
atacaaacg ccacgttgac aaatgtgtct gttcatcaa acccggtgtg atcctgctgt 120
cgtggaccga cgacgagaag gaccatcagt acgaacggtc ggtcgaggca ctgtctgttc 180
tctcccagtc cgtcgacgcg aaagggcggc agtccaagt ggtgaagatc cacgtccccg 240
ggcctctgta catgacagag gaagaggcac aaggcgttgt ttcacggga cattctgtgc 300
cgaggccagc gggcacgaga ttggccgct cgtacgtcaa cttctacatc gccaatggcg 360
ggatcatagc gccttccttc ggcgacaggt gggacganga ggcgtacgcg gtt 413

<210> 7170

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-E11

<400> 7170

agccacgcg tccgagggaa agatccttga ggtgttgaag aactggccag agaggagcat 60
tcaggttata gttgttactg atggtgaacg tattttgggg cttggagatc tcggatgcc 120

ggggatgggg attcctgttg gtaaactttc cctttacact gccctgggag gagttcgtcc 180
 atctgcttgc ttgccgatca cattggatgt tggtaaaaat aacgaggagc tgcttaatga 240
 cgaattttac attggccttga gacaaagaag agccactggc caggagtaca ctgattttct 300
 gcaagaattt atgactgctg tgaacaaaaa ctatggggag aaagttctta ttcagtttga 360
 ggattttgcc aaccataatg cttttga 387

<210> 7171
 <211> 377
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-020-Q1-E1-E12

<400> 7171
 agcccacgcg tccgtgtctg ggacagtcgt tgggtcgtct gctgggactg ggagcaaccg 60
 cagatacgtc catgacaagt gctttgcaga attccacaag tcgctgacgc tctacactga 120
 acatctcagg gctgagtttg ctgcaaacac aagacgagtg atggagctgg aaacagaaga 180
 cgagatcgtg cctagcatag cagctagcgt gaaatcgtgt tgaaggcaaa tgccccacgg 240
 tgttgatatgt tgctctcatc atcagatatt tgctggctta gctatttcca gcctcattct 300
 acttcattca tgtcacttga ataatccaat tcatggcaat ttgtactgtc cctaaaccta 360
 gatggcctaa aatccga 377

<210> 7172
 <211> 401
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-020-Q1-E1-E2

<400> 7172
 agcggacgcg tgggaggacg cgtgggccag attgggggtt ccttggttcc tcgtcgagtt 60
 gctgcttctg agaagaggca acggaaactg aagagtggac aaaagttgag ccggtttcag 120
 gagagctctt acatggatcc aaatcaaagt ctttgccttg gagcactatt taacatagca 180
 gcaacaaatg gcctagacat gggcagaaga ttatgcatct ttggcttttg ccgttctatt 240
 gaaatgttaa gcgatgtagt ggaagatacg gtattggagc atggcgggtga ggttgtcact 300

gcagagaaag caagcagtaa cggcctccag gagaagccaa ccatgtctgt cccagttaca 360
 ttgctgtggg gcattcctcc agcatcagag accctccatg t 401

<210> 7173
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-E3

<400> 7173

cccacgcgtc cgatttctgg tgaggaacct gatgcggaag ttgtggagaa cctgctccaa 60
 agcattgaga agcacacgct cgccagccat ctagtatggg gcctctgggg aataatttcg 120

gaccatgtta acgacattga cttcgactac aaggagtatg cgaggcagag attcgagcag 180

tactggcaca agtctgcgat cttaacatct tgaacatgtg tataaacacc cgtacgtggg 240

ctcaggaact ccctgagggc ctgtggctgc acacacgaaa ttgtgcagtg ccaactgacac 300

atagataagc tgtgaaagaa gaaatactga cgacgacgac gaataatccc gttttgggct 360

cgggagggtta tttctccgca actcgatgag cttcaggctt cagcttc 407

<210> 7174
 <211> 221
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-E5

<400> 7174

ccacgcgtaa agcaacgcgt gggccgacgc gtgggccaga ttgggggttc cttggttcct 60
 cgtcgagttg ctgcttctga taagaggcaa cggaaactga acaatggaca ccagtggggc 120
 cggtttcagg acagctccta catggatgca gctcaccctc tttgccttgg accactattc 180
 aagataccag caacacatgg cctagacacg ggcaccaaga t 221

<210> 7175
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-E6

<400> 7175

cccacgcgtc cgcgagcgcg tgggcagccc aatgctaata accaatactt gccccattt 60
gtgatagttg atgacagcgg caaagctgtt gggcctgtat tagatgggtga tgcagttgtc 120
actatcaact tccgggctga tgcagtggtt atgcttgcta aagcactaga gtatgcagat 180
tttaacaatt ttgaccgtgt acgtgtcccc aaaattcgat atgctgggat gcttcagtat 240
gatggtgagt tgaagcttcc aagtcgctac cttgtttccc caccagagat agatagaaca 300
tctggggagt acttggtgaa gaatggcatc cgcacctttg cttgcagtga gacagtgaaa 360
tttggccatg tcacattttt ctggaatggg aaccgctcgg gatactttga tgaaactaag 420
gaag 424

<210> 7176

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-E7

<400> 7176

cacgcgtcag cgaacgcgtg ggagaccaat aagcagcata gaaagtggaa tacagtagca 60
acaatagagc aacaatggcg gccaaatat tttccatcct taagctcctt gctctttctg 120
caggtgttgc ttacgccact attttccac aataactcaaa gctccgagtg ctgcccgctg 180
tcattcatac attccatcaa tgagtgttg attatgtgaa catgcagctc tttataccta 240
caggttcgtg ctcgcaatcg caccaagcag gccagtttca gcagaccgt tcttgtaaaa 300
tgccgccagc cccatctttg gtc 323

<210> 7177

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-E9

<400> 7177

agggccatag ggcgatgaag gcgccagttc catctgttct tcaaagagag agtggaccag 60
atcatgcaca gggatgatcc aatgaagcag ctaccgcttg ccagtccaat gagatatgta 120

tatttttgta aaggagatac atcgtcggca gatttttttt tctgtgctgt ctttcttggt 180
 cgtaagaaat gtatagacct tcgagttctg ttgtgcattt gagctccgtc atgcatgggt 240
 gcttctgatg tgaggcacga ttattgaaga gacctctcgt ttgctgctcg gt 292

<210> 7178
 <211> 410
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-020-Q1-E1-F1
 <400> 7178

cacgcttttc taggactgcg ggcaggagtt tctgcctct gccatgtaag tcggatgtcc 60
 tgtatgtgtc agatccatgc gagcatcttg atcaggggga agaaggcgac ataggtttct 120
 tccgaggcat ctttatgtca ttgcccactt caagggtaaa gaagatgttg attgagaagc 180
 gggcgaggtt tcatccaagg gagttgtgcc cttattgtaa ggccaagcta tggaacatgt 240
 ttcaggaaaa tatgatccca aggagtgtt cgcgaaggct gggcgcctat gatgactctg 300
 tggagtattt tgtatgcctg aatggacatg ttattggact cgtacccta ctaccactct 360
 cagactcaga ggaggcagca gatgagtgat catcaggagc atgaatcagg 410

<210> 7179
 <211> 383
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-020-Q1-E1-F10
 <400> 7179

cggagatcgc cgggtgtggtg gtgacgttcg acccgaagcc gatcccgggc gactggaacg 60
 gcgccggcgc gcacaccaac tacagcacgg agtcgatgag gaaggagggc gggtagcagg 120
 tgatcaaggc ggccatcgag aagctgaagc tgcggcacag ggagcacatc gcggcctacg 180
 gcgagggcaa cgagcgccgg ctcaccggca ggcacgagac cgccgacatc aacacgttca 240
 gctggggcgt ggccaaccgc ggcgcgtcgg tgcgcgtggg ccgggagacg gaggagaacg 300
 gcaagggcta cttcgaggac cgccgcccgg cgtccaacat ggaaccctac gtggtcacct 360
 ccatgatcgc cgagaccacc atc 383

<210> 7180
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-F11

<400> 7180

agcaacaaga gtagtagtcg gagccgtccg tagtagctag cgtacgtacg tgtgagtttg 60
tgaccaattc agagaagcct cgatcatcgt tcgcttcgct tcgcttggtg gtcgatatat 120
atggcgagat cgccgtttgt tccgatggat caggggaaag agcaaggcgc cggacgagga 180
gcggccggca ataataagga gcggcaggag gaggaggtgc tgctggtgca cagccaggtg 240
cggcggatca agaaggagga cgaggaggcc ttcagggagc gcctcctgaa gctgcgcctg 300
ctggagaccc ggccaacac cggcgccggc ggcgtggcct ggcgagcccc gcgctccctg 360
tcgccgtcc gccgtgccgg cagcgccatc atcccgtg 398

<210> 7181
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-F12

<400> 7181

ccaacgcgtc cgcggaacgc tgggcggacg cgtgggctag tctcctcttc gcacgagcgc 60
aacaccatcc acccaccagt tcgaagcgga ggcgaccggc aacctgcggc ggagatgtca 120
ggcacgggca atggcgggcaa ggggctcggg aagggcgggc cgaagcgta ccggaaggtg 180
ctgctcgaca acatccaggg gatcacgaag ccggcgattc ggaggctggc gaggaagggt 240
ggcgtgaagc gcatctccgg gctgatctac gacgagatcc gcggcgtgct caagatcttt 300
ctccagaatg tcatccgga cgctgtgacc tacacggagc acgcccgtcg cataaccctc 360
accgcctat 369

<210> 7182
<211> 116
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-F4

<400> 7182

acgcgtcagc caggttctcg ccatgggagc cggcgccaac aaccacgagg agtcgagccc 60
cctcatccca gctgcggttg cgcggccgc ggatcgagaa gccccgcag gctccg 116

<210> 7183

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-F5

<400> 7183

agcccacgcg tccgaagtt ccctggccgc caaaagatta ttgagagcag aaagtgggtga 60
gtgcatgatg aattcattgc tgccatgaaa ccaaatgcc atagcctaata agcttgcata 120
agttattttt tattattggt ttttgatttg cactgtcttg tccaggggct tcaccaagtt 180
cagccgtgcc gactacctga agtacaagag tgagggtaga attgttcttg atgggtgtcaa 240
cgcaaaggta cagctatcac atatcttgc acatttagat atatctctga attagttttg 300
ggatagtaat gtaatttcca ttgatacgca tttttgaaa tggagctatt cttacaatgt 360
ttgctccgct ttctcttcgg cagtatatta accagttcat aat 403

<210> 7184

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-E10

<400> 7184

agctaccagc gactcagcga gcgagagcag cacacactgc acgcagctag ctaggagcag 60
cagcagcggc ggcgatggcg gctccatga tctctcgtc agctctggcg gtggcgctc 120
agggcctgcc gcccctcggc cgccgcgcct cctccttcgc cgtcgtctgc tccaagaaga 180
agatcaagac cgacaagccc tacgggattg ggggtggcct gaccgtcgac gtcgacgcc 240
acgggagaaa gggcaagggc aagggcgtgt accagttcgt cgacaagtac ggcgcgaacg 300
tcgacggata cagcccaatc tacaacgagg atgactggtc tcccaccggc gacgtctacg 360

tcggtggaac cactgggctt ctgatctggg ccg

393

<210> 7185
<211> 184
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-B7

<400> 7185

ccacgcgtca gctaacgacg acggaaacag tagtgctgcc agtacagctc tcagaactcg 60
ggaaaaaaaaa tgtcagaggc cgccgtgctg gtgatcggcc tatggccgag cccgttcgtg 120
atccgcgtcc tgatccccct caagctgaag ggcgtcgagt tccagttcgt ggaggccgtc 180

184

cccg

<210> 7186
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-B9

<400> 7186

agccaacgcy ttcgaccaga cgcagatgga caagctgacg ctcagtctcg acccccagga 60
cgagttcgcc tggaccgacg aggcctgcca gatggtcttc aacgagttcc aggacctcgt 120
cgatcactac gagggggctg agctgtcgga gtacacactt cggttgatcg ggtcagacct 180
tgagcactac atccgcaaac tgctgtacga cggggtgatc aagtacaaca tgaggtccag 240
agtcctcaat ttcagcatgg gcaagcctcg catcaagttc aacagcaacc agataccaga 300
aaagatatag aatgtactta tccaacgccc ttaaaagaat ggtttctctc cattcgatta 360

361

a

<210> 7187
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-C1

<400> 7187

agcagctccg ctgctcgatc agctctcggc tgaccactca tcgccagtgg gtgcctgccg 60
 accaggtctc gccgccgcca ccgcccggt agagagggga gggagagggg gaaaaaactg 120
 gccagatcg agaggtacag cacgaaaaag agaggcaaga gagatagggg accggagggc 180
 ggcgggccgg ggcccaagac cgaggggctc gtgcgcagga agctgatgag gtcctgtcg 240
 ctgctccctc tcggctgccg tgctggacct atcgacgacg cgccgccgcc cgtggaccac 300
 gccgccgccg cgaggaggcc ccggaagacg aaggccaaca gggccgcca gctgccgggg 360
 ggctgctgcg ggtg 374

<210> 7188

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-C11

<400> 7188

agcggacgcg tgggggaaaa catgccgcgc ccgccgcgcg tgaatccaca gcggctttcg 60
 ccggcagagt cccgagagcg gacgctgtac ttcttccatg gtctgggcgt ggacgtgccc 120
 ctcccgtctc cggccgagcg gcccgacgcc tacacctcgc tcgtccgcgc catcgtctcc 180
 tccgccgcag tcacctctc gcgcgtctcc tgcacctca ccgtctctcc cgccgtcgcg 240
 aaccagtaca acacgtcca cgccggcgcg gtggcgccgc tggctgaggc cgtcgggatg 300
 gcgtgcgcgc gcgccgcgcg tggggacaag gagatgttcc tcggcgagct cagcaccgcg 360
 tacctcgctg ctgcgcgact caactctg 388

<210> 7189

<211> 127

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-C6

<400> 7189

cgaccacga gtcagcgag ctccgctcgt cgatcagctc tcggctgatc actcatctcc 60
 agtgggtccc tgcccaccac gtcccgcgc tgccaccgcc gcggtacaca gggcagggag 120
 aggggga 127

<210> 7190
 <211> 393
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-C7

<400> 7190

cacagaatgg ttcaaaattc cactctattg attgctttgc ctgctaattg tactgtttta 60
 tgatttgga gcaactttgc catattatca gacccatgga tagtagcaag ggggtttgca 120
 aagccatgaa atttactaac ttacccaagt aaataaacct gctttcctat gagtaccaac 180
 aatgggtttg tctgggtttt ttcttttagt gtttggctta ttatttttgt tcacgcttca 240
 ggtagcttc actgttcatt ctgactgatt gtccaatata gggtttatct aacctcacat 300
 taaccgggtt tgccccaaaa taaaagaact tgggtcctga agatgcaatc aatgaaaata 360
 agcctggctc attccttctg gcaaatatcc tta 393

<210> 7191
 <211> 223
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-D10

<400> 7191

agcggacgcg tgggcagtag tcgtcgcgtt tgcagctagg cagatctgag ttaacccggg 60
 ggttcgattc gttgaccttg aatgtgggtc atgtgtgtct ccgtggaaat agcaaaagtt 120
 acacccccaa tgggaaacac gtgataaaac aaaaactcgt ttttgactcc agggccatgg 180
 gggcgtctag ggcttctgtg ctacaaaag ggggtccggg ggt 223

<210> 7192
 <211> 378
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-D11

<400> 7192

aggagaaaaa ggaaaggaaa ggacaaagga gcggcggcga ggtctatggc gtcgacggcg 60

gggtacctgg cgcggcgggc ggcgcagaag gagcgggtgc gcctgctcta ccgcagggcg 120
ctcaaggaca cgctcaactg ggccgtccac cgccacctct tctaccagga cgcgtcggat 180
ctccgggaca agttcgaggc caaccgacac gtggataacc tggacgtggt cgataggctc 240
attgacgatg cggaggctca gtacaggaac ttccagcacc ccgatcccta cattgttcca 300
tgggcaccag gcggcactaa attcacaaga aacccccctc cacctcaagg gatcgagatc 360
atctacaatt atggcaag 378

<210> 7193
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-D12

<400> 7193

agcccacgcg tccgctgggt ccgcgctggt ggagtactac gaccaccagc aagggtcagg 60
atcgaaagtt caccaatatg caaagcagtt cctttcatct gatagcaata gcggccaaca 120
aaaggagtag ctagctagtg tccttgcgaa gtgcaagcag cggagtgggc gttatttcct 180
gatcaaataa ttttgcttat ggcacattct gtggaaactt tgacggatct ttgcctgctt 240
ttctatgcga tgtaagctgc tgaaacctgc actcatcaaa tgttgtgtat gcagatggta 300
ccatgcattt gtttc 315

<210> 7194
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-D2

<400> 7194

cacgcgtcag aacaaatgga ggcaattatg gagctggcaa ctcaggggaa ggaaaaggaa 60
gggatcaaga agaagggcag caaggtgaca cctctcaagg ctcctatcat tgaggctgct 120
gagatgctct gagttctatt atgagatgtg tgggtagttc tagtgcacat tgttatgtcg 180
ccggtgtact tgctatgag tcgcccagga tcttttgctg gctgctttgt gtagcatgtt 240
gttgtccggg cagtgggtgtt tgtttctttg gctggcaatg tctgtgtttc ggtctatctc 300

aatctcggtt gtaagttggt tggttggtccc cttctgg

337

<210> 7195
<211> 301
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-D3

<400> 7195

gaccacgac gtacggctaa gccttcctgc gagatgcaac tgtttagcac acaacgcgtg 60
ctgtctcaga cctagagaat ccacaggagc tgtgtacaca atgtgatgat gcccacgtc 120
gggacaatga ttcaatcggt gaccgcaaga tctgctataa agggacacaa gaacatttga 180

aggatagtat gaatcactca tggcggtgaa agttttgagg acttactact ggtttgagga 240

taccacatt cccgcgacaa gtcgtggcca ggcctagcct gagttatcta caccgactga 300

a 301

<210> 7196
<211> 126
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-D4

<400> 7196

cacgcgtcag ctaacgcgtc cggtcacatg taagctgac tgcaacatg cttgaaatac 60
ttcagaaaga cctcaggggc ttgcactttg tttatgttca ggcctgtgtc aaatggcgct 120
gctggg 126

<210> 7197
<211> 226
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-D5

<400> 7197

cacgcgtcag cagcaatcca cacaagcact tcgacgtcgc acgggcgctg cacacagaca 60
caccatgcgt cggcaccaat ggcttactac caggagggtg actactgtc ggaggagggtg 120

aggtctgtgg ccccgccgg cttcgccgc cttggacgc gcgtccagcc tctgtctc 180
tcggtcacgt tctggatgt ctctcggtc tttcttcgg tgttct 226

<210> 7198
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-D6

<400> 7198

gacccacacg taaggctttg ccttctgcg atatgcaact gtagagcaag caaggcgtgc 60
tgtttcagag ctaaagaatc cactgggtgc gggtaaaca tgtggtgttg ctccaagtcg 120

ggacaatgat acactctttg tcgacaatag cggcaaaaca tggacaacag aacatttgaa 180

ggataaactg aaaagttatg gcgttgaaag ttttgacgac ttactactgg ttgaggatac 240

acacaatcct gggatgaatc gtggctatgc tttgcttgag ttttctactc gacctgacgc 300

aatggatcct tccaggaca 319

<210> 7199
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-D9

<400> 7199

gaccacgcgt caggcagcct ccagctcccg gcggtcggcg gcagcggcca tgcgtcacg 60

cgcatgcgcg ggctcgacgg gccacttcg ttctacctcg aaaccgggta cgtggaggtg 120

gacgagcagc aagggtgtgca gctcttctac tacgtcgtgc gctcggagcg cgaccctac 180

gaggaccgcg tgctgctgtg gctgtccggc ggcccaggct gctccggcat ctccggcctt 240

gcctacgaga taggaccctt aaaatttgat gcccgagggc aagggtgaatt tccattctt 300

ctctaccgac cggagacatg gaccaagggtg agc 333

<210> 7200
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-G8

<400> 7200

atggttacgt tggcgggtaca catacagggc cattggccca aataatcggt tttcgccctt 60
ctaaccttga actccatttc catactgctt cattcttgta ccaaactggc cgtcaacacg 120
gcctcacctc gggtcatccg tttcaattac acaggatttg gctgatatcc atggactgat 180
tcaaattctta cccgggttgg cacatgttta tcgagacgtt caacaacgga tgcagcccta 240
ggactgacgt cgggtcttac gctgaaatgt ccgcggaacc ccgatttggg aatcttccta 300
cgcatattca tataagtatc cccgcacgag agcatgggac tgaatgatgc gtcacaagtc 360
tagacggcgg taga 374

<210> 7201

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-H10

<400> 7201

gtgaaacaaa gtcgtcgagc gctctttccc tctctctata cctctctgtc tgcgacgcgg 60
ttggataggc taccgcccgc gccgccgcta ggtgccgact gccgaggccc tcaccggcgg 120
cgaagagcgc ccgccagcaa tggcagcaag atgtagcctt tcctcgtcat ccttgctcgg 180
acatggaccc ctccgccgca ataaaccag caagagactc gctccatgcc tgccatcgtc 240
gccaagacca ggagccgctg ctctgagagc gcgtgctgcg aaacttcctc caggggttga 300
agcgcgccagg gtgcaaccga agctgagcga gcccttcttg gggttcaccc agaccgcgga 360
gatttgggaac tccaaggcct gcatga 386

<210> 7202

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-H11

<400> 7202

cccacgcgtc cggtagaaga ggagtggcag agcagggtgt ggaagggtgt cgtgtacgtc 60

atcacccctgg gcatgctggt ggcgctgctg ctgggcctca acatgtcgtg gagcgccatc 120
accgcccgcc tggcgctcat cgtgctggac ttcaaggacg cccgcccctg cctggagaag 180
gtgtcgtacc cgctgctgct cttctttctgc ggcattgttca tcaccgtgga cggcttcaac 240
aagacgggca tccccagcgc gttctgggac ttcatggagc cgtactcgcg gatcgacacg 300
cccacgggga ctgccgtgct cgcgctcgtc atcctcctgc tctccaacgt cgcgtccaac 360
gtgccgacgg tcctgctgct gggcgcgcg 390

<210> 7203
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-H12

<400> 7203
cggcccaacg cgtcagcaga cccttgggca aagatgacat ggactttccg cggcggctgg 60
caaaagaaaa aataatgggt ggtcctgcaa gatgtgccgt ccggtacaaa ggatgggctc 120
ccaacaacct tggcaatggt tcaacctccc cgggaaaagg ggcttaaaag gtccaagtcc 180
tccggctggc gatacagaaa gccaacaaat tgataagata aagtcaccag ttctatgcaa 240
cagagacaaa aattgttatg aacttctgca cagatatatg atattgtatc atcttcaactc 300
gaagatgaca tgtttgatgc tctttgtcta tagtaaataa atgatgtctc ttcaaaaaaa 360
aaaaaaaaaa ataaaaa 377

<210> 7204
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-H4

<400> 7204
ggtccaggga cgcgtcacgg ttaggaagag ctagtacatt taaagaacca gaagaagtgc 60
tccatcccca ctcccatggt acatctactc ccagctggcg tagatctaag tcaaaatcaa 120
ggactgaaaa ggcaaggcca ggcttgtctg ctacacacga tgcaaaatct tctaaggtta 180
atgcagcaga caaagaggac acgtcatcca caatttctga tcctggacct gtggctgtat 240

gggattcagg accaaagtgg gacgatgaac ctaaattgga taatcaacct aactgggaac 300
 ccgagacttc aattgagctc catagccctc gcgaggatat tgagcttggt ctgactaagg 360
 agctggtacc tagtttagat gaaaggtgga ctg 393

<210> 7205
 <211> 91
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-H6

<400> 7205

cctagcttcg ctcgttgccg cggctagccg gcgatggcga agtctctgcg atccaaacgc 60
 gagaagcggc ttcggacgtt ggcgcgggag a 91

<210> 7206
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-H8

<400> 7206

cccacacatc caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 aaaaaaaaaa aaacaaaaaa aaaaaagaaa caaaaaaaaa agataaaaga taaaaaaaaac 120
 aatgcaagaa aaaacctagt tcaaaattcc cggggggcgg ccctaaagtt tcaggccttc 180
 gttccccgtc ttggaaatct ggacccctc aaaatgtgcc cccaaaatca attttggggg 240
 cgggtgcttta aaacctcgtg gcgggaaaac ccctgggggtt aaccagctta acccccctag 300
 aaaaaacccc cttttcacca gcaggggtaa atcccaaggg gcccgcacat tatgcccttc 360
 ccaaaagggtg gccacccta aggggacagg ggaaccccc at 402

<210> 7207
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-H9

<400> 7207

aaactgctga ggctgcagaa gctgctgctt ctgcagctca tacaatggat gaacagaggc 60
 agcttttgtg ttcggagatt gagcgactaa aacaagcctt ggaaagacaa atagaacaat 120
 cagtgggttaa gcttagacaa tccgaagaga aggttatcag cctgagcaaa gagaaggagc 180
 agttgatgaa ggaaagagat gctgcatttc aggaggctca tatgtggcgc attgaactag 240
 taaaagccag ggagcaagca gtgatacagg aagcaactat tgcccagca gaggagaagg 300
 ctagagtttc tgaagcagat gccgcagctc ggatcaagga agctgctgaa aagttgcata 360
 ctgttgagaa agaaa 375

<210> 7208
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-A10

<400> 7208

cccacgcgtc cgcccacgcg tccgcggacg cgtgggcgcg agagcttgtc ggagggctct 60
 ctgtctccgt gataaaccga tacgcagagg aagctgcgga gaggtgtccc tgctctgctg 120
 gtgagctgcg gccagcgggt gaagtgaagt ggaccggacg tggacgaagg agagagggag 180
 agagagagag agagaagaaa gggcgccgcg ggggccatgg ctggacacgc gccggcgagg 240
 gacaagacca ccaccggctt cgccgctacg tgcagcctgc tgagccagtt tctcaaggag 300
 aagaagggcg gcctgcaggg cctcggcggc ctcgccatgg cgccggcgcc ggcagctgga 360
 gcaggggc 368

<210> 7209
 <211> 353
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-A12

<400> 7209

agaatgaatg atccttaaaa ttatccttct gcataagcgt aaaccggagt ttttggaat 60
 aaagcttcta aagacgcatg cctatacaaa tacagcatca ctcatgtgtt gtgtatgctg 120
 tgtatacact ataactagct ttgcacgtta ttgattaata acacacacat attaaactaa 180

ttctatttag ctcaatgcct tcacatgccc attcctcaag ttcgcatctt ttaaaggaag 240
 caacgcatgt tttaatatcc tgaatcaatc tggggaatg tgctgaactc ctaaccaata 300
 tgcataatcc aaacctttat taactttgcg atccactcgc cgataaaatc tga 353

<210> 7210
 <211> 150
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-A3

<400> 7210

ttggtgatcg cacatcggat atcctcaagg gaaattcatc tcctcacact tctgtgaaag 60

tggtgtcacg acgcacgaag gcgaatctct ctctgccag tgggtaccgg gctatctcca 120

ctctatagga gtggcaggaa gctgatttta 150

<210> 7211
 <211> 287
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-A4

<400> 7211

agcggacgcg tgggatcgga gcccgggcc gtcgctccg ccctcgcgat tcgccgccgt 60

tgcccacgag cgaggcttcc tcctcttcgt cgccgccgtc gcaggagggg aaagaggata 120

aactgccatg gcgggcaggc tcctcgcgaa tctaactgctc atgggcggaa ccgtggttgg 180

cagggccatg ctccaggcct accgccaggc catcgtcaat gcaaacaaaa ctggagctgc 240

ccaagaagct ataaatggta ttagacgggc taccagggca tgactga 287

<210> 7212
 <211> 156
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-A6

<400> 7212

tcctcagggg acattcatct ctttaaactt ctgtgagtct gctgtcacca agtttctata 60

cgagtgtctc tcttgcgagt ggggtacggt ctaggtctag tctgtaggac tggcacgcag 120
ctcagtttat cgtccattcg ttgtttccct tccctt 156

<210> 7213
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-G5

<400> 7213

aagacgcgtg ggcggacgcg tgggaggacg cgtgggaggc cgcgtgggat cgcacgcgag 60
ccccaagaga tcccaaacc ctacacctgc ccgcccggcg actcggggac cgtcgaatcg 120
agcaggttga cggaggagag ggagcctcga agatgttccg gaaccagtac gacaccgacg 180
tgacgacatg gagccccag gggcggctgt tccaggtgga gtacgccatg gaggccgtca 240
agcagggctc cgcctgcgtc gggctccggt cgagcaccca cgcctctta gccgccgtca 300
acaagccgc ctccgagctc tctcctacc agcggaaggt gttccgcgtc gctgaccacg 360
ccggggtcgc tctcgccggc ctcaccgccg acggccgcgt tctcccgcg 409

<210> 7214
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-A9

<400> 7214

agcagcgtc gtcctccgtc gcgtcgatct gtccttgcc tgctgccacc accggcacca 60
gctgcggggc gcaggacgcc gggcccgccg ccgcgcctcc gccggacctg ctccgcacct 120
cctccctgcc cgcggagtac atggaggacc ggctccgccg ccgcgcgatg cagagccagc 180
ggcgcctcga ggccaagcgc aagcgcctcg agcgcgcaa ctccatgagc tcgggaaggc 240
cggttccggc ggccggtggc cgcgacgacg gcctcgagca caccgtgccc agcggcttcc 300
agctccgccg ttcggtcgcc ttgacgacgg cggggtcgcc gacgcccagc cggccgcagc 360
aagggcccg gga 373

<210> 7215
<211> 107
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-B10

<400> 7215

agaaaaaaaa taaaaaaaaa aaaaaaaaaa aaaaaaaaaa acacaaaaaa aaaaaaaaaa 60
aaaaaataaa aaagaaaaaa aaaaagcaag gaaaaatagt caacaac 107

<210> 7216
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-F1

<400> 7216

gggtcgagcc ccgcgtccgc ccacgacgtc cgcccacgcg tccgcccacg cgtccgatcg 60
tgaacggcag cgacgccgtc atggagccgg ttgttgctgg cagcaacacg gtagtagctg 120
ttgcccgaagt tgagttgcaa acaatgaacg tgcagcagcc cgctgatggt gccggaccca 180
gcgaggggggt ggcggcgatc tccaaagggg ggaaggtagg gccgaaccgg tgcagcgctt 240
gcaggaagag gggttgactt acgggattca actgccggtg tgggaacttg tactgcgcac 300
tccaccgcta ctccgacaag cacgactgca agttcgacta ccggactggc ggcaaggaac 360
cccattgccca ggctaattccg gtggtgaagg cagacaagct cgacaagatc taaggggggt 420
tccctacggt tgggtatcag gaagattgta aaccgcggta ac 462

<210> 7217
<211> 136
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-F10

<400> 7217

agcccacgcg tccgcccacg cgtccgccc cgcgtccggt ttctcttgat gtcataagcaa 60
tgagaacacc tgggttcagc ggagcagact tggcaaacct tctgaatgaa ccaccattct 120
gggtgggaaaa cgggaa 136

<210> 7218
 <211> 334
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-019-Q1-E1-F2

 <400> 7218

 gggtcgagca cgcgtccgat actacctccg gccgatctgg gagaaccccc aaagcccttc 60
 acgataactcc ctcactacta ccacgacaac gtctcgatgg ccaacctctg caagctgcac 120
 ggatggagag tcagggagac cccgcgcgcg gtcttcgacg ccgtgctctt cagcaacgag 180
 ctcgacatcc ttgacatccg ctggcacgag ctgagccctt acgtgtcgga gttcgtgctg 240
 ctggagtcca actcgacctt caccggcata aggaaggacc tccacttcag ggagaaccgg 300
 cagcggttcg gcttcgccga gtcgcggctg acct 334

<210> 7219
 <211> 221
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB189-019-Q1-E1-F3

 <400> 7219

 accacacgtc cgcggacgcg tgggcgacga cgccggcgccc aagtcaccgg cgccggaggc 60
 gcccaaggag ccggcggcgg tgctcgccc ggccgcggag gaaggcagca agtcgtcgga 120
 ggggttcggc ctcggcgacg tcatgaaggg cgccgagcag ctggtgggag ggaataagca 180
 nggcngccgg gaagagagcg ccggcggcgg tgggctgttt a 221

<210> 7220
 <211> 441
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-019-Q1-E1-F5

 <400> 7220

 agtgactcta catttacgcc agtaactata aatggatgct ctttgggtcta tattccaaat 60

gtgggagaca tcacaccagc tttgaagtat tgcccgtctc cattgtgaac actctgcagc 120
 atatgtagca gataaatgag tgaaactatt tgtactgect gctctgcaaa ttagtatgaa 180
 caccctcaa aaagatttgg cccacactct ggtctctctg tttgcagctg ggaacaggga 240
 gctccagagc ttgtgaattc tatagaataa aggtggttgt ccgcacagta tagcaaactg 300
 cgaagcctgc aactactaga gtttggtctg tagcaggctc agttgggaat gtgtagcaga 360
 gcatgatcca tgggtgtggat gaattgcaga gtactgtgct gtgtgtgtag gaaggaaaag 420
 ctgccgcctg ccgattgtgc a 441

<210> 7221
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-F6

<400> 7221

agtttgtcga atctttgtat cggttgttct ttacttggag ctttatgcaa gctgtgtgga 60
 gtacatcacg ctgcttggag atagcatgtc atcagtgtt cccttagcac attttgacct 120
 gaatgcacac actctctttg cgatcacaac ggccttggca attctcccaa cactggcggt 180
 gtgatggcga caattgcagt catcgtcttc ctattctggg ttggctcctg ttctgcttca 240
 cggtggtgac ggttgccat gctggaatcg ccgtctcagg gtttctgatg tttggcgagt 300
 ccaccatgtc acagttcact ctgaacttgc cacagcagta catcccatcg aaaattgcc 360
 tctggatgac ggtattctgc agctgcattc agaatgaaga agatatgtc atttcattac 420
 ttgattgatt actttcagat ttt 443

<210> 7222
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-F7

<400> 7222

agggttggt tctcctcccc ctccggttcg ggttcgggtt cgtgagggtc tccgggggtc 60
 ggtttcgtgg gtgagcggat cgagatggcg gcgtcggatg ttgagtaccg ctgcttcgtc 120

ggcggcctcg cctggggccac ggacgaccac tccctccaca acgccttcag cacctacggc 180
gaggtcctcg agtccaagat catcctcgat cgggagacgc agaggtcccg cggcttcggc 240
ttcgtcacct tctccacgga ggaggcgatg cggaacgcca tcgagggcat gaacggcaag 300
gagctggacg gccgcaacat caccgtcaac gaggcccagt cccgcggcgg ccgtggaggc 360
ggcggcggtg ggtacggtgg tggccgtgga ggcggcggct acggcggtgg cgggcgccgt 420
gatggcggcg gcggctacgg cg 442

<210> 7223
<211> 299
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-019-Q1-E1-F8

<400> 7223
cccacgcgtc cgcggacgcg tgggcggacg cgtggggccag aattgccgct tgatctgtag 60
ctccaaggggt ttcaaggacg gtggctggtg tgacgaaagc gtggagcaca aagtgtgctg 120
ctgctcccat tagaaatata atagcgtatg ttatgttgat gcatatatat atgcatcgtc 180
catctacctc tgtggtgcaa aattctgaat aaaatctggc ttttttggtg aaaaacaaaa 240
aaaaaaagaa aagaacaaaa aaaagaaaaa aaaatcacaa gaaaaaaaaa aaaaaggca 299

<210> 7224
<211> 414
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-019-Q1-E1-G1

<400> 7224
aggacgcgtg ggtttctgt agctattagt tagtccagaa catttttccc tatcaaactt 60
tcacctttaa aagcttttga ttgattaac cacattccgg tgcaacaaac cttttgggggt 120
tgccagtaaa aaaattcaaa atgaatcaat gaacttaaat ccccggtta attaccttta 180
aattcttaca ccaacaattg ctccaaaacg gtggttacat cgggctgtga gtaatcaaca 240
cccttttttg ttgaatgtta tcacaacaca tggggacgtg gtataaagtg aagaaagaat 300
gaggggtcca ttccttttat tccgtaagga actcagaagc tttcgagcat actagttcaa 360

gttgggaatt ttactctgta gatgtagata aacaattcag attcatgggg tgta 414

<210> 7225
<211> 204
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-G10

<400> 7225

aatttcaaag aaggcatcaa gcagaccgga tttcatgata atagattcat ttccggtgca 60
atgatttgca acgtaaaaat aaaccaccga gagcttctgt acgacaacgc agacaatgaa 120
ataatgcaca tagccaacat caatagaaaa agacaaatta aagttaaaag aggacatgtt 180
gtctgtagcc gcatcatata tcta 204

<210> 7226
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-G12

<400> 7226

aggatcaccg gattcagtag gtagacatga ttaaagaagc cgagaaagaa tgcctttctt 60
tggtttaatt ttggatacca acagcaccct gagtttttgg cagagtaatg attcatgtga 120
taatgcaaag gctattagaa tcgaacatta ctaattcctg tgcattgattc agatcgattt 180
tgtcaaatag gatttgatgt attaacatgg tatgtttctt ttaaaaagaa tccttgctac 240
catcatttgt tacttacagg agctagtggc cagatttgtg ctgaacacta ttaacaaact 300
gatctgtgca atttc 315

<210> 7227
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-G4

<400> 7227

gggtcgaggc acggtccga accgcaccac cgcaccggcg ccaaggccaa tagcctcgcc 60

tagcgctcac tcgctcgccc cactaccacc gcaccacgcg ctcccgtttc cgccgatccg 120
agcggcgcag atcgcggaag cccagcggct cagagtccag ggggagggag ctcccggcgg 180
ctgaggaagg cgttcaccag cgtcgcggat tttattgagg aagagatggg gctctccttt 240
gggaagctgt tcagccgtct cttcgccaag aaggagatga ggattctcat ggtcgggctc 300
gatgccgcg gtaagaccac catcctctac aagctcaagc tcggcgagat cgtcaccacc 360
atccccacca ttggattcaa tgttgaaact gttgagtaca agaacattag ccttcacgtt 420
tgggatgtgg gtggcaggac aagggaacta tt 452

<210> 7228
<211> 445
<212> DNA
<213> Zea_mays

<223> unsure at all n locations
<223> Clone ID: LIB189-019-Q1-E1-D4

<400> 7228

accacgcgtc cgggctgtca gcaatggagg aggcggctgg tgagcagcaa ccggctgctg 60
aggtttggga agaaaggag ggagggagga gtggtgtggc ttcataccat attggaaacc 120
ccaaacccta atttgggttg ggctgctata ttaatagatg gactagtata tgggctgggc 180
ctaagtccat tacaactgta acacacacat gtctaacaga tatgacgggtt acctgatata 240
caagcgcatt ctattctaac atatgatata aagagaagag gtagtttatg ttggatcatg 300
tcacagcctt gcgactcatt tggttttgtt tcccagacct agcagatcct ttacaaatcg 360
tggaagcatg catactgaag gaataactga aactaaaaat aaacaacaca ggttttcatt 420
atctagcttt gtanatggat aatgt 445

<210> 7229
<211> 439
<212> DNA
<213> Zea_mays

<223> Clone ID: LIB189-019-Q1-E1-D5

<400> 7229

agcacatggg attctcaagt gttaagcagg catgctgaat gtctggagct ggaggagtgtg 60
actgcaatat cagtcaatcc cagtctgctt ccagctttga atcagttgct tctcgaggcg 120

tatgccattc tacgtcccaa gccgcttgac tatgaccagc gcaacacctt ggttgatgtc 180
 ttcaggaaga tggatgaatca aagatttggt agcaacagtg ggtctccggt tgtggaacca 240
 tttggatcat tcacgatgga tttattttact cctcacagtg acctggacct ctctatcaat 300
 tttagtgtca atacttatga gcaatatact cgcaagcaaa tgatctctat tatcaagaaa 360
 ttttccaagg ttctattttc ttatcagagg agtggaattt tctgtggggg tttacctatt 420
 gtaagtgtca ggggtgccta 439

<210> 7230
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-D6

<400> 7230
 accacgcgtc cgcgagcgcg tgggcaaaaa gcagacagag gaccaaggaa ggaagcaggg 60
 atccggcttt gctctgcaac catgagctcc ctgtacgacg tctcctgctt cgccgctggc 120
 cttgctggca acgtcttcgc cctcgccctc ttctgtgcgc cggtgccgac gttcaagagg 180
 gtctcaagg ccaagtcgac ggagcagttc gatgggctgc cctacctgct gtccctgctc 240
 aactgctgca tctgcctctg gtacggcctc ccgtgggtct ccgacggcgg cagggccctc 300
 gtgcgccaccg tcaactgcac cggcgccctg ttccagctcg cctacatctc gctcttcac 360
 ttctacgccg acagcaggac cactcggctc aaagtcgcgg ggcttctggt gctattggtc 420
 ttgcggttcg cgctcac 438

<210> 7231
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-D7

<400> 7231
 acggacgcgt ggggttcttt gaaaccacaca gatattttgg tttggagcct aatcaagtga 60
 catttttcca acaggggtact attccatgtg tatctcatga tggaagattt attatggaga 120
 caccatataa ggtagcaaag gctcccgatg gcaatggcgg agtatatgct gctctaaaat 180

ctaaaaggtt gctcgatgat atggctgcaa aaggtgttaa gtatgtagat tgctatggag 240
 ttgataatgt attgggtccgt gttgcagatc caacattcct aggatacttc attgacagag 300
 gtgtatctgc tgctgctaag gttgtcagga aggcataatcc acaagagaaa gttggagtat 360
 ttgttcagcg tggaaagggg tggaccctct ctgtagttga atacagtga atggatgcag 420
 ctatgacaac tgaaatcaat c 441

<210> 7232
 <211> 406
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-019-Q1-E1-D8

<400> 7232
 acctggccta cgacatctcg gacgaccagc aggacatcac caggggcaag ggcctcgctc 60
 acaacctctt ccaggcgctt atgggggacg gcaccacgt cgccgtgctc agctcctacg 120
 actacatcag ccaggggcaa aagtettaca acttcgacaa catgatggat ggcttctaca 180
 tagccaaggg cttcatggac aagctcgctc tccacctctc caagaacttc atgcacctgc 240
 caaacatcaa ggttccccctc atcctgggtt acctgggaag gcaaaggcca gggaaaatcg 300
 ttcaaatgcy agctggctct cgccaagatg ggcacaccc ccatcatgat gagcgccggc 360
 aatctggaaa ggggcaacgc cggaagccc gccaaagtca tcaggc 406

<210> 7233
 <211> 399
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-019-Q1-E1-D9

<400> 7233
 agcccacgcy tccgcggacg cgtgggctca gccaaaggact ggagaggtgg cagggctgcc 60
 agctttaaca tcattcctag cagcaccggt gctgccaagg ctgttggtta agttcttctt 120
 gatctgaatg gcaagctcac tggatatgcc ttccgtgttc ctactgtgga tgtctcggtt 180
 gttgacctca ccgtcagaat cgagaagggg gcctcctatg aggatatcaa gaaagctatt 240
 aaggctgctt ccgagggtcc actcaagggt atcatgggtt atgcggagga ggatctgggt 300

tctaccgact tccttggtga cagcaggtcg agcatcttcg acgccaaggc cgggatcgct 360
 ctgaacgacc acttcgtcaa gctcgtctcg tggtagac 399

<210> 7234
 <211> 353
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-019-Q1-E1-E10
 <400> 7234

agcccacgcy tccgcccacg cgcccgccca cgcgtccgga cacagcagct ccgctcgtcg 60
 atcagctctc ggctgaccac tcacgcccag tgggtgcctg ccgaccaggt ctcgccgccc 120
 ccaccgcccgc ggtagagagg ggagggagag ggggaaaaaa ctggcccaga tcgagaggta 180
 cagcacgaaa aagagaggca agagagatag gggaccggag ggcggcgggc cggggcccaa 240
 gaccgagggg ctcgtgcgca ggaagctgat gaggctcctg tcgctcgtcc ccttcgggctg 300
 ccgtgctgga cccatcgacg acgcgcgcc gcccgtagac cacgccgccc cgc 353

<210> 7235
 <211> 383
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-019-Q1-E1-E11
 <400> 7235

agcccacgcy tccgcgtctc gctcgtggct gccctactcg tgctgcttgc cctcgccgcc 60
 gtttctctca cgcgcagcgc acaaaaggag tccgtggctg acaacgccgg gatgttgga 120
 ggcgcatca aggacgtgcc ggcgaacgag aacgacctcc agctccagga gctcgcgcgc 180
 ttcgcccgtca atgagcaca ccaaaaggcc aatgctcttc tgggggttcga gaagcttgtg 240
 aaggccaaga cacaagttgt tgctggcacg atgtactatc tcactattga agtgaaggat 300
 ggcgtagtca agaagcttta tgaagctaag gtctgggaga agccatggga gaacttcaag 360
 cagctgcagg aattcaagcc tgt 383

<210> 7236
 <211> 84

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-019-Q1-E1-E12
 <400> 7236

tcaaaggcgg ctcccaaatt ttcaacgaag gcgggctgga ctaactccgg aaaccaacc 60
 tgattctagc ccaaaacaac ctgc 84

<210> 7237
 <211> 400
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-019-Q1-E1-E5

<400> 7237
 gcgctgagac gtgcgtgtca gcctagtaat aactaaaata atggccgtgt tcatgtaacg 60
 tgctcgccgt atgtacaagc cgagtgtaat aatacagtagc tatgtgtatt attaaatctc 120
 atgctttgaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagggggg gccccccaaa aggttttcaac 300
 cttattacc cgtgaaagga aattttaaac cctccaaaag ggccccccaaa attaaattca 360
 aggggctttt ttttaaaaac tcgtaacggg aaaaacccgg 400

<210> 7238
 <211> 430
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB189-019-Q1-E1-E6

<400> 7238
 cggacgcgtg ggccggacgcg tgggaccgcc tttcacctga aaccgaaaga gagaagcagc 60
 tatttgaga aagtgaagca cgcgataaga tgagaaaaag gaagagagaa gaacagaagg 120
 gaggactcga aaatgggata cataggctcc gtgccgaggc cgagaggctg gacgtgttgc 180
 tcgaggaggg ccgtgttttc tctgacctgc ctgctttggc cgatagagat agcatcttgc 240

tgaaggatac cgcctggag aattctcttg tctgccagcc ccaacaacgg aacttgcag 300
 gtcgaatttt cgggtggttc ctgnatgcac gagcatttga gcttgccctc tcgactgcgt 360
 atgcttttgt tgggcagaga ccttggttcc ttgaagtcga tcatgttgac ttcttgaaac 420
 cagtggacgt 430

<210> 7239
 <211> 93
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-019-Q1-E1-E8
 <400> 7239

acgacgcgtc cgaggacata cacggtctga gataacgcac tatacaagga gtcctacatg 60

gagatgcact acataggcgt cacgatgggg ttt 93

<210> 7240
 <211> 103
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-019-Q1-E1-B8
 <400> 7240

acaaaaagaa aaacaaaaaa aaaaaaaca taacaaaacc atccacacca caacgatcac 60

ctccgcagca ccgaatccat atacagtcac aacacgtcgc ttt 103

<210> 7241
 <211> 409
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-019-Q1-E1-B9
 <400> 7241

agacaggctg cacttgtttt tgaatacttg gagtgaccac aactaagtca cacaatgaaa 60

ctttactttc cagagtgtaa cctgccggac ttctgataga atgaactgaa agacttctct 120

aacaaaagtg gagctgaggg gagcaagagt gctgaaagtg gtccaatgtt tttagatgtt 180

ctcgaatgtt atctgaaata tgaggtttat ctcttgcttg atcaacaata gaagcaaaaa 240

atcatccttt tgtttattta tgtttcccaa tataaaggaa aaggggaaat attttgggtgc 300
 attgtgceca aatcttttgt ctctagaaaa ctatgtagtc acctatagca ggcgctatag 360
 tcagtttttag ctattttaga caccactact attgtacac acatttcta 409

<210> 7242
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-C1

<400> 7242

accacgcgtc cgccacgcg tccgccacg cgtccgccca cgcgtccgct tggatgtctg 60
 aaacatgggt taggtcaagg aagaaaagg ggggatgagg agtatgctgc agatgaagat 120

ggcctgaca caactgatca tccacgagac tttggaacag atgttaccgc ccaaattctca 180
 gaaacacatt tcgatcacca ggccgaagat ggcacccatg acaagggtgg aatgaggcag 240
 caggggagag ggagaggccg tggaggtaga ggcagaggcc gtggtcagca ttatggccac 300
 aacagccgag atggccacca tcctattggc actccccgt cggagcatcc agctgtgccg 360
 aagccgcccc gggccccgca tgccggatgg cacaaaaggg ttcaacatgg gccgagggaa 420
 gccgctca 428

<210> 7243
 <211> 387
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-C11

<400> 7243

aggtagacaca taaggtggta ccacataccc tggctatacc gatgataaga cagtgcccaa 60
 ggatactgtg actccaacgt ttgctgctgc cgcgcctttt cataaataat gccagatggg 120
 atggagttcc ctttcatatg aaagctggga aagctttgca cacactcag agctgagatt 180
 acggtacagt tccgacatgt tcctgtaaat ctctacaagg ggagttttgg cacacatctt 240
 gatacggcca ctaatgagct tgtgagacgt gtgcagtcgg atcaatcaat ttacctatag 300
 attaacacct atattcctgg tcccggatg ctactagata cgagtaactt gagtcgccat 360

CGP019Q1E1C11

tatgccgcaa ggtactcaaa ggagata

387

<210> 7244

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-C12

<400> 7244

agcagacgcg tgggcaggac ttcaaaactg atttgcgttt ccagagccat gcggtgcttg 60
ccctccagga ggctgctgag gcataccttg ttggcctggt tgaggacacc aacctgtgcg 120
ccatccatgc taagcgtgtg accatcatgc caaaggacat tcagctggca aggaggatcc 180
gcggcgagag ggcctaatacg ccacctcaaa catcgtgaca aaaacatgaa gtcctgggggt 240
tattgttaat ctggtgccat tgtaaggaca tatgactacg gtttgttttg tggatcgcaa 300
gtttctcttc tgccactggt gctgtacct ttgctggtgt tattgctagg gtcgaatact 360
taagttaact atgcgctgac agtctggact ag 392

<210> 7245

<211> 254

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-C4

<400> 7245

aacgagaagc acgtccccgt caacatcgct ggaaccagga tttgtgacgg cgagtggctc 60
tacgccgacc ctgatggcat tcttgtctcc aggacggaac tcaccgtgta gacagacacc 120
tggttgatg tgtgtgtgtg tataaggaat cgggcgctct tgctgttaag cccgactgcc 180
cgagcttgca ataatggatt cttgcttgat cacacattta tacttagaat aatcgaatgc 240
ttgcttccat gggt 254

<210> 7246

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-C6

<400> 7246

acagaaggag ctaactgaag gttcagaaac aaagttggat tcttttatga tgttgcttac 60
ggaattgttg ggagacttgt ttttggtgat ggagactaca ttgaaggaat gttcaaagaa 120
aaaatctgtc agtgtcgttg atgaatgttt gaaacttggt ttcctcttcc acacactagc 180
acaatcaaag aaataccgac aagatgctac aactcttctg ctggaggcct tgctgatggc 240
tttctctctg tccagtgata ctgtttcaca ggagcttgct gaagtgaaca ccattttcag 300
aaagttgttc tctcaattta ttcagatacc gtctgtggct atacagatta aagacataat 360
gctttctgca ccagctgaaa tgagactaca gcttcaggac atgggccgag cttcagtcag 420
tcaagggcag ata 433

<210> 7247

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB189-019-Q1-E1-C8

<400> 7247

gcaggcggag gcgcggtgcg cgcgctgtcc cagaaggagc aggacatata gatgatgctc 60
gcggccgacg tccacctcgg caccaagaac tgcgatttcc agatggagcg gtatgtcttt 120
aagcgtcgca ccgacggcat ctacatcatc aacctgggca agacatggga taagctccag 180
ctcgcggcga gggttattgt tgccattgag aaccacaaag acatcatcgt ccagtcggcc 240
cgcccctacg gccagcgtgc tgtctcctcaag ttcgcgcagt aactgggcgc ccatgccatc 300
gctgggagcg acacccttg taccttcacc aatcagctcc agacctcttt cagcgagcct 360
cgctgtctca tcttactga cccaaggact gaccatcagc caatcaagga gtctgtcttg 420
gggaacantc ccgacattgc ct 442

<210> 7248

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-C9

<400> 7248

agcccacgcg tccggggacg tggacctggg caaggtgtcg ccatacatca gacgctgcgt 60
cgacgttaag tacggcataa atcttgtcaa tgaaagcagc ggacagtggg aacatttgtc 120
taacaaaaat ggctacatca tagcgcttag ttgcaaaaag attctcaaaa ttttaagcact 180
ggatattttcc aaaacaggag tgcacaggtg attcaaatgt caggaatcca aagttctttg 240
agacattgct tgtgatggat taggcaagaa tttaatagct acatcattcc aatttctaac 300
aaaccagcat ctgttgatgc agtgaaatct cagaagcaaa catatgacag tatcgtgcct 360
ggaaaattgt tacagaatgg ctaaaaataa gccagttaac ag 402

<210> 7249

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-D1

<400> 7249

catcggagga gcagctggac gaccatggcc tcgccgctgc tcaagtcgca ctctcagctc 60
gccgccgccg ccgccctgca ctccgtgagg agagccgacc gctgccctgc gacaatacac 120
ctgggcaagt tccatgacca cgggctcagg tccggccgtt ctaagagatc cggttcagcg 180
aaggtgggcg ccttcccgtc gctggacgtg gtgccgctga tggtgacgat ggtggagcac 240
gtggacatgt cgcgggacta cgctcgtgacc aagtccatct ggcatctcag cgacgcagcc 300
ctcaagagcg tctatacctt ctacgccatg ttcaccgtct ggggagtctg cttcttcgcg 360
tccatgaagg atcccttcta cgacagcgag acgtacagga gccagggtgg cgacgggacc 420
gtgcactggg actacgac 438

<210> 7250

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-A3

<400> 7250

cgtcctaaagt gatcttgggt ggtgccacgg aagctcacca gctccatttg tgttccacag 60
atcgctcgtcc ttctcgttcc cctcgtgtgt agcctttggt acgttggtgg aagggcgagg 120

cacacacgag aattgataga ggggggatcc ccattttcag ctcttcgtgt tttttttag 180
gaggaattcc cggtcacatg atccgtgcct ggacctgacg gttttgcccc gctctgctgc 240
ttccctttcg gggagaagag gactcgactc aaatcatttg gtatcgaga cctcgccctt 300
cccagttcag ttgacagaga tttccggcat gtcc 334

<210> 7251
<211> 378
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-019-Q1-E1-A4

<400> 7251

atactcgtca agcacgtta aggtctaaga agcttgacga tctgcagcca ggagagccgc 60
ttgcgaaacc ggtgtcacct gctctgccga gcgcacggaa gcgtgctcct acacgtgctg 120
ctagggggcag aaaggtgct gctgggagag gagtgcctcc cgcaccaaag cctagaagaa 180
aggggggttga tattgtcgtc ttagaagctg atcctgcttg tgaaacccca cttaaagctt 240
tcaagggact ggaagttgct gctgctgcgc ccaagaaacc ttctttgaag cacgtanccg 300
aagttggtgt tccgaaaatg aatggtgaaa gtggggagaa gattgttggg gctgaagatg 360
aatcgacagc tacacctg 378

<210> 7252
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-A6

<400> 7252

cccacgcgtc cgcccacgcg tccgcaacga caacggagcc gatgcgccgg tgcccgggag 60
gtacctcatc aaggatccta gcgccgagga ggtcgtagcc gccggcgaca gcgcctgcac 120
gattccggtc atcgatttcc gcaagctgct cgatccgggg tcgtccgagg aggagtgcgc 180
caggctggga gccgcgtgcc accactgggg attcttccag ctcataaacc atggcgcttc 240
ggccgaggtg actgggaacc tgatgaagga cgtagctggg ttcttcaggc agccgctgga 300

agccaagaag gagtgcgcgc agcaggccgg cagcatcgaa ggctacggcc aggccttcgt 360
 cgtgtcggag gaccagaagc tggactgggc ggacatgctc ttcctcatcg tgcggccgag 420
 ggaggccagg gacatgcgct tctgg 445

<210> 7253
 <211> 431
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-019-Q1-E1-A7
 <400> 7253

cccacgcgtc cgagcctctc ctcccggtc tcctccgccc gttgccttcg tcccctccat 60
 cteeggetgc gtcgccggcg agcccgacac cggaatcgg atccgccgac aaggcgagag 120
 ggaagagatg gggctcacgt tcaccaagct gttcagccgg ctgttcgcca agaaggagat 180
 gcggatcctg atggtgggac tcgacgccgc cggaagacc accatcctct acaagctgaa 240
 gtcggcgag atcgtcacca ccatccccac catcggttc aatgttgaaa ctgtggagta 300
 caagaacatc agcttcactg tctgggatgt cgggggccag gacaagatca ggccactgtg 360
 gaggcattac ttccagaaca ccagggtct catctttgtt gtggacaaca atgatacgga 420
 ccgtgttggt g 431

<210> 7254
 <211> 410
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-019-Q1-E1-A9
 <400> 7254

ctagttctag accgccgacc ggctggcct acttcttgag ataatcaaga tcattgcgga 60
 cacaaatatt gatgtggaat cagctgagat tgatactgaa ggtttggttg cgaaggacaa 120
 gtttcatgta agttacagag gtggaaaact aaacagctcc ttatcccagg cgctgaccaa 180
 ttgcctgcgt tattacctcc gaaggcctga gacagatgaa gacagctatt gattgttggtg 240
 tttgtcgaac ctccctatag tgcattagaa tcagaaactt tggcttcagt tccttcgcta 300
 tgggcccctt gtactgctgc aaatggagtt ttccattgta gctgataaag tgcccacaag 360

gtgcatccat atgtgcatag gtggcactga atcggggctc actggaccag 410

<210> 7255
<211> 424
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-019-Q1-E1-B1

<400> 7255

gaggcctccg agcaagcagc ggagagatca aactgagaga tggagagaga aagccagatg 60

ccgctgctgt gttggccacc accaccgact ggggcaagag agaaggagag aaggaagatg 120

ccgtggtgac cggcgggtacg gatcttcttc acgcgcgagg tattgggatg gatgcactcg 180

gttcgttggg cgacggcgag ctctgatgct tgcgttgggc gtcgggggga cggagaagga 240

cctcgtggcc accacaattt ctcacccatg ccgctgctcc gccgcggaac cactagcgcc 300

gtggtcggag aatatcagca tcctcaccat tgcgtaaggt cacnagtcac ctgatgagca 360

agttggtacc tggaatctca agtgccaggc aagttgtgcc cttgatcact tcttttacct 420

agtc 424

<210> 7256
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-B10

<400> 7256

agccccacgcg tccgcccagc cagggtggta cagggtttat tacatcatta ataattattca 60

agagttagta accgctctga cccaagagca tccggtgggtg ctgatgttct gggcggactg 120

gaaccagcca agcaaggcca cgtactggga tctggccatc gctaaaaagg atgaggccgt 180

attctgccag ctggactttg ataagtttaa agatgtcgta gagaagttca gagtgaaggc 240

tctgccgacg ttctctctga tcaaggaggc cgaggagcag cgcagggtcg tcggtgccaa 300

ggtcgaggag ctcaacatgg cattatcaga tatcggataa tctaggcagc tatagcgctc 360

acattctaac ttcataaat t 381

<210> 7257
 <211> 337
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-019-Q1-E1-B11

 <400> 7257

 agcaaattgcg caacagccaa agcttttctgt cggcatgatc ctcatectca ttttcgcaga 60
 agcgccttgct ctctatgggc taattgttgg aattatcctt tcgtctcgcg ctgggtcaatc 120
 ccggggcggat taagtgcacc accattctgt gattaccgca tcgtttatta tgctattctg 180
 agaggattgg aactctattc ccttgtctag tttattcttg ttaccatgta ttaatgtaac 240
 aatctgtagc tgatggaagg tgacttccag tcatgttttg gttttggtgg tgtcgagcag 300

 aggttattta tttttggggt taaggcggat ggatgct 337

<210> 7258
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-019-Q1-E1-B2

 <400> 7258

 gcgtccaacc gcatgtgagc acacacgtga gagatcacat ccagacatgg gaagatgaag 60
 ccacatgccg ctgctgtgat ggcgtccacc accgactggg gcacgagaga aagacagaga 120
 gaagatgccg tgggtgaccg cggtacggat cgtcctcacg cccgaggtat tgggatggat 180
 gcactcgggt cgttgggtcca cggagagctt cgacgcctgc gttgtcgtcg gggggaccga 240
 gaacgacctc gtggccacca gaatttctca cccatgccgc tgctccgccg cggaaccact 300
 atcgccgtgg tcggagaaga tcagcaacct caccattgcy taaggtcacc agtcacctga 360
 tgagcaagtt ggtacctgca atctcaagt ccaggcaagt tgtgcccttg atcacttctt 420
 ttaccagtc a 431

<210> 7259
 <211> 465
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-019-Q1-E1-B4

<400> 7259

gggtcgagca cgcgtccgcc cacacgtcag cccacgcgtc agcccacgcg tccgcgggacg 60
catgggggttc gaggggtattg cggacgaatt tcagaacaac aacaatgtca ggctgctttt 120
gaagtatgat gatgctctgg cacatatgat ctttgcagca tcagacatgt tcattgttcc 180
ttctatgttt gaaccatgtg gcctcactca gatggatatct atgcgatatg gttctgtgcc 240
agttgttcgg agaaccggcg gtttgaatga cagtgtcttc gatttggacg atgaaacgat 300
acccatggag gtgcgaaatg gcttcacctt tttgaaggct gatgagcagg attttggtaa 360
tgactggaa agagctttca actactacca cagaaaacct gaagtttggg aacagttggg 420
gcagaaagac atgaagatag atttcagctg ggatacttca gtttc 465

<210> 7260

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-A12

<400> 7260

aggaaatcgt tctcaaatac acacaaggga tagatagagg tacagttgag ttatacaaag 60
gtttcatcaa gtttcttaaa gtacagcaga gttccattt cctacatgac cagatagccc 120
tagcaaagca atggaagtcc tacaccaaaa gccatccatg tttecccacg tactatccaa 180
gcggccagct cgggaacagc aatatatatg caaagtgcaa gcaggtgaac aagcgagct 240
agtagtacct gaggtccttg cgtcgaacac gaggtccccg ttgatgagct cgcggtaggc 300
ggcgacgggc cagatgaacc ccctggggag gaggcgggtg gcgagctcga cgtcgatgat 360
gatctccctc atggcgggct tcttctcgcc gctg 394

<210> 7261

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-B6

<400> 7261

gcagacggca atgcagaccc ccgcgcgcct ctccgctcca tctcgcgc tcgtctctc 60

cgcgccaccg atacctgtac ggccacaacg cgtcgctttc cctccctcc gccgccgtga 120
 tctcctctc ctgccggggg cgtgaccct cccgacggcg cccgccccgt tgctgcctc 180
 ggcgcgaggg ctgttccgca tgccccgcc gcggctggtg aaccgttact ttctggtgcg 240
 cgcgggcgag tccgtgtacg aggggcaggg cctcctccgc accaaccgg tcgccaagac 300
 ctccgtcgac agcggcctct cccccgtggg gtcgccag acggcgcgcg ccgcgctcga 360
 gtcacagcgc ctgggcgctt gcgaggacga ctgctggata tggccgtcca tcaactcagag 420
 agcttaccag gcggccgaga 440

<210> 7262

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-G4

<400> 7262

cgccccgct caaccacac gtccgggagt gaaggaccga ggagggaaac agagaagatg 60
 gcgacgaagc gcgacaccga gtcggacggc aaaggctcaa accccttcgg tgggtggcgca 120
 actccccgc cetaaccgcc gcccctgtca tatgcctct cgcctccgcc ggggacttcg 180
 gtggcgggcg cttcgttgga tccatcttcg gatatggaca aggcttgatc accaagaagg 240
 gttttaaggg ctcatcagc aatgcagggt cctctgccaa gtagactttt gcaattctct 300
 ctggcgttca gagtttggtt ttgtgcttgt tgcgaatgct acgtggcaag gatgacattg 360
 tcaatgct 368

<210> 7263

<211> 255

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-G5

<400> 7263

cggtcgcctg ggcttctctc cctacctag ctacgcttcc ggttctgct tcgagtcgga 60
 gatgaggcgc ctcgatgagc tagctggcca ttgaggagtt attgcttccg aagctgctct 120
 cgcagctcac aacagcagcg cgacacttgt cgatgttctc aactgatag aggacttagg 180

ctgacgcaca gatgatttaa cactattagt tcatcgaca cggatgaacc taatgataag 240
tatttcaaga ggagt 255

<210> 7264
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-G8

<400> 7264

gggccgaggg tcgacccaag cgtcagccca cgcgtccgcg gacgcgtggg cggccgcgtg 60
ggggctgcca gcgcttcatt cgagatgttc gcagtaccaa agtagacagt gccgttcgtg 120

atgctcgtat acacgaagac gatcccttgc gcggtattgt ctaactgcct ctggaaagag 180
tatttcacaa gcgcagccag atcaaccaga tgtttccct tgctggaagt gtacgatatg 240
gccgcataag aatctccatg gtcttccgaa gtgtgcatgt acaactacca agagatatgc 300
tgggctggga ctacgggact gtggatatca aaccctctgt aaaggctatt gacgtgccgg 360
aggacctaaa gccccttcga ctcaaggtec gcacgccatt ggaacgcgca aagc 414

<210> 7265
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-G9

<400> 7265

acccacgcgt ccgcccacgc gtccggcgga atcaactacc agcctcccag cgtcgtcccc 60
ggcggtgacc tggccaaggt gcagcgtgcc gtgtgcatga tctccaactc caccagtgtt 120
gtggaggtct tctcccgcat tgaccacaag ttcgacctca tgtacgcaa gcgcgccttc 180
gtgcactggc acgtcgggta gggatatggag gagggcgagt tctccgaggc tcgtgaggat 240
ctggctgcgc tcgagaagga ctacgaggag gtcgggtgctg agtttgacga ggggtaggac 300
ggcgacgagg gtgacgagta ctagacgctc tactggcgcg gcgtcgtcgg gcctgtgtgc 360
cactgctatc ctgtgatctg ccttg 385

<210> 7266
 <211> 344
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-018-Q1-E1-H1

 <400> 7266

 cccacgcgtc cgccttccgc ggactagttt tttctgaaga ttcggcgatg gcggcgacga 60
 tcgaatccgt gaaggcgcgc cagatctttg acagccgcgg caaccctaca gtcgaggtcg 120
 acgtgttttg ctcagatgga acctgtgcaa gggcagctgt tcccattgga gcatcaactg 180
 gtgtatatga agctctggag ttgagggatg gtggctctga ctacttgggg aagggtgtct 240
 ccaaggctgt gaacaatgtg aaatctgtta ttggacctgc actgattggc taggacccta 300
 cagcacagac tgagattgat aacttcattg ctcagcaact tgat 344

<210> 7267
 <211> 420
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB189-018-Q1-E1-H10

 <400> 7267

 tcccgggacg cgtccaattt gactgctaca gatgcaagaa atttgcgga cactattggg 60
 ccctggaact gtgaactttg tgaagatcaa gacatttcat cagaagctgc aaccgttagc 120
 gataaatcac attgtaatgg caagaaatta ccctttgcac agtgtggcat gtgccatggc 180
 acatcaggtg catttagaaa gactgtagat gggaagtggg ttcattgctt ctgtgctgag 240
 tggttgttgg acaccaagta tgtaagggga caagataaac ctgtanaagg aacggaaagc 300
 cttgtagagg gaaaggacac ttgttgtgtc tgctccaca atgttggcgt gtgcttaagg 360
 tgtagcagtg gggattgcaa cattacattt catcctaatt gcgccaaaaa tttgtggttt 420

<210> 7268
 <211> 387
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-018-Q1-E1-H2

<400> 7268

gccgacctaa ggtccgaaaa ctgttctctg acaatgaccc tggactattc acggagagtc 60
tgcggaataa cgaggaagag aaagcgagag agaaggaggt taagtcgaag caagaggcca 120
catggagacg ccttgaagag atggcatcag cgaaagcgac aagcggcgcg gcagttctcg 180
tctctcgacc cttatcccg cagtcttcgg ctgtgtagcg aattttcatg tggtagtcgt 240
gagaacattg tacaggattg agttgtatat acgaggtata ttaaggtggg caaattgaca 300
aatgatatcg tcggagaagc cagccagatg gggtacaggg ctaggcacac atcattttct 360
tggtcccga tctgggcttc tgctaag 387

<210> 7269

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-H3

<400> 7269

ggccagtctc cagcagacga tctcagcgaa catgaggccg ggatcatgga ctacagcatg 60
ggtagccagg aagccaactg tggaagcagc ttcttgccg agtctgttgc taagatgcac 120
ttctcgaccg ccgaagcttc ctgagaggcg tgccctcagtt ctgtaaatat gatggacggg 180
atgtgtataa ataaaccag catgctgttt tttttcgtcg tcgttgtgtg cgtttgagag 240
ctcgccatgt gttttggaac aataattttt ggacagacta tgtgttctgt atgttttggg 300
cgtcagacat atctatcctc agtccatggc ttgcttaac ggtttaacct ggactc 356

<210> 7270

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-H4

<400> 7270

acgcgtccgg gggaatgttg gtgaggaaag gagattgttg gaggaagggt tgaagctatt 60
ccctgcattc ttcaaattgt ggtaaatgca tggacagatg gaagaccggc ttggtaattg 120
agcgaaggcc aaggaggttt ttgagaatgg cctgaagcag tgccctagtt gcatccctct 180

ttggctctct ctagctaccc tagaggagaa gattagtggc ttgagtaa at cacgtgctgt 240
 tctcacaatg gctagaaaga agaaccctgc tacacctgaa ctctggctag cggcaattcg 300
 agctgaattg aggaatggga acaaaaagga agccgatgct ctactggcca aggcattgca 360
 ag 362

<210> 7271
 <211> 386
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-H6

<400> 7271

gaccacgcg tcagcggacg cgtgggtccg tggccgatct actcgatctg gatcacaag 60
 agtgagcctg aaatccttag ttgttacagt tcccatttct agctgcttat ctacaagcgg 120
 gcacccctcg caaagttgca atggtctaag ggatggcatt tggcgaagca ggaacaact 180
 ttatcacacg tttcttagat gcactgaaac gaagttgctt agtggtgaca ctactaaagc 240
 cactcgaatt taaccccaaa ttgtatcctt tgcagcgaac ttcttcagtt gtgtccttgt 300
 atgccaccgt ggtagagtcc tggctaattt aacacaccaa attgtcttga cattttaact 360
 cttaagatat cacctgtagc cactga 386

<210> 7272
 <211> 315
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-H7

<400> 7272

aggtaggatg ttttcttatg aagaactgaa gcttgcgacg tccaactact cacctgatat 60
 gttaattggg aagggtggaa ccagccaggt tttcaaggca caacttgatg gcggaacatt 120
 tgctgccata aagattctga aaccctcggg tgatgcaata cacgagtttg ttacggaggt 180
 tgagaccgta accagcttgc agcatgagaa cattgtagca ctaaggggat tcagcttcga 240
 gaactacaac cttgtgttgg catatgatta catgccccga gggagcttgg acaaagctct 300
 tcatgggaag aatga 315

<210> 7273
<211> 193
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-H8

<400> 7273

ccacgcgtcc agcggaatcg acggcatccg gcgtggctgg gccaatcggc ctgaaccacc 60
tctgcccggc ccagattcaa cacaatccag gccagctca tgttccagca ccagcatcag 120
atgggcctgc accccgcgtt cctgcgcccg cgggcgcagc cgattaagca atccgggtcg 180
ccaccggcac aat 193

<210> 7274
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-A1

<400> 7274

aggtatctgc tgtgggctat gcaatcgac caaaataaat tctagccgat gataattatg 60
caacttaatg aatcgatccc tacatccaga gttacaattt ggctccatat aagcggtaga 120
ctttttatat ctcatcgggt tccgatagaa caccagctaa catgtcccaa cctattcggg 180
ccatatgtga ggtattctaa cacaaacggt cccaaatagg aaccctttgt ggtgctcgat 240
tcgtttcaca aacgggcgaa aatataaaaa ccgtctgtga tgcgcgattc gtatcaaatg 300
ccattcgtaa ttagaccga atgggaattg attaccatag att 343

<210> 7275
<211> 164
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-A10

<400> 7275

agctagtctt agaccgccga ccggcctggc ctacttcttg agataatcaa gatcattgcg 60
gacacaaata ttgatgtgga atcagctgag attgatactg aaggtttggg tgccaaggac 120

aagtttcatg taagttacag aggtggaaaa ctaaacaggg cctt

164

<210> 7276
<211> 281
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-E7

<400> 7276

acttcattac agaacttcgg ttctagattc atgccgtgat ggagcttcat ttggaccata 60
aggtctaaga tgtcatgcaa ttgctgggta atcagcggat gccgatcaaa cttcaactgc 120
ttcaacgatt ttcttgagat agatgagact accaacttcg cgcattgcaac catcgtcatg 180
tacttgctat tggcgtatac tgaggttcagc ttattatacc tgtgaaagtt ctattactat 240
cagctctgat taaactcttc atttcattga atccaaccgt g 281

<210> 7277
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-F10

<400> 7277

aagaaaaaaa acacgagaaa aatcaaata ggagacgggg attccagaga gcccctgtcg 60
ggtagggaag ggaaggagag gcgaagcgga ggagagatgg gggcggccga atccgtgccg 120
gagacctcca tacacgaatt caccgtcaag gattgcaacg gcaaggaagt gagcctggaa 180
acctacaagg ggaaggctct ccttggtggt aacgtgcct ccaaattgtg gttcacggag 240
accaattaca cgcagctgac ggagctttat cagaagtaca gggacaaaga cttcgagata 300
ttggcattcc cttgcaatca gttcttgcca caggagccag gtactgatca gcagatacaa 360
gactttgctt gcaccagatt taaagctgaa taccagttt t 401

<210> 7278
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-F11

<400> 7278

agcggacgcg tgggaaaagg ggtactcttt ctacaactac attagtatta gtctcgaaat 60
gcttttaaacy ggaaatagct agtgtagaat ttatctgata tagaactc atactgataa 120
aatagtttga actatttact agaaggcac gcagcccttt ttccaatgcc aaatcgacga 180
cctatgtata aaaaaagag aaattttttg gatttgaaga aaaaataaaa ggaattctat 240
caatttttat ttccattta tttagttagt tttcttaat gaaattgaaa ttattaacta 300
acagagcaaa cacaaataaa gaaacaactt tgctgaccat gatagatttt tatctagttg 360
gaagagtcct cttaatatcc atctagtcct 390

<210> 7279

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-F4

<400> 7279

accacgcgt ccgcccacgc gtccggtatc ctctcagttg ctgccattga taagggcact 60
ggaaagaaac agaatcacia catggtgcaa taccaccaa ggtaagtta aaaatggaaa 120
aaaccataat ttccagggg gacaaagaga agagagatgc aatcgacacc aaaaaccagg 180
cggactcagt ggtctaccag actgagaagc aactgaagga gcttggcgac aaagtccccg 240
ctcctgtgaa agagaaggtg gatgtgaagc tccaggagct caaagacgcc atttctggtg 300
gatcaacaca gagtatgaaa gatgccatgg ctgctctgaa c 341

<210> 7280

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-F8

<400> 7280

cccacgcgtc cgcttcaatt ctttgaaaa ccaaaggtg ctgatttgaa ttctatgaga 60
gttgagacca acttctgag ctatgctata gatgatgcac agaaatatcc ataccttgca 120
tcaatgggca tttatgtctt caagaaagat gcacttttag accttctcaa gtcaaaatat 180

actcaattac atgactttgg atctgaaatc ctccaagag ctgtactaga tcatagtgtg 240
caggcatgca tttttacggg ctattgggag gatgttgga caatcaaadc attctttgat 300
gcaaacttgg ccttactga gcagccttcc aagtttgatt tttacgatcc aaaaacacct 360
ttcttactg caccctgatg cttgcctccg acgcaa 396

<210> 7281
<211> 393
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-018-Q1-E1-F9
<400> 7281

agtgaagaag ctcaacaaga acaagaagct catcaagaag cttgctcgca agtacgatgc 60

cttcgtcgtc tccgactccc tcatcaagca gatccccctg ctcttgggtc ctggtctctc 120
caaggccggc aagttcccta ccccgctctc ccacaacgag gacctttccg ccaagatcac 180
cgacgtcaag tccaccatca agttccagct caagaagggt ctctgcatgg gtgtcgccgt 240
cggccacgtc gacatgaccg atgaggagct cgtcggtaac gtcattgtgt ccatcaacta 300
cctcgtctcc ctctcaaga agggctggca gaacgttggc tccctcacc ccaaggcttc 360
catgagcccc cccaagcgtc tctactagac gtt 393

<210> 7282
<211> 349
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-018-Q1-E1-G12
<400> 7282

cccacgcgtc cgagggtttc ctctctctc cagtgtgtc atcgccgccg ccaccccggt 60
ttcttcgta agcccgctgt cctccgtccg cgactctgcg cgagaagcga gattatggac 120
acccaagtga agcttgctgt tgtggtgaag gtgatgggaa ggaccggctc caggggtcag 180
gttaccacag tcagagtga gttcttggat gaccagaacc gtctcatcat gaggaacgtc 240
aagggaccgg ttcgcgagg agacatctc aactgcacg agtctgaaag ggaggctagg 300
aggctgcgtt gaggcgggat actgtcttgg tagttttcgt atggagttg 349

<210> 7283
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-E5

<400> 7283

cgggccgacc caaacgtcag cccgtgggct cattgctgc ctctgccgt gttcgatcga 60
tcggatcccc atacgatcta ctagctagct aagctacacg actcgaccga ggaggaggag 120
cgcgctcagg ccgtatagaa acttgaggca tgtcgtaac caccgaagtg tttgggcctc 180
ccggctacag gcggtggtgg atctattaca tcgtcaacga tactgatcaa ttgagtaaag 240
ctctgaaccg acatgatcac ctggtggtgt tcatgttctc ggaggagtgg aacgaaccct 300
gcaaggcgat gaagaaaccg ttcagggaca tggccagggc tagaaagatg caggccgtat 360
tctgcttggg ggacatcgac aagc 384

<210> 7284
<211> 247
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-D1

<400> 7284

gcgtcaagtc taggtgcaaa aaagcgggaa acaaagcgaa gttggggcgg cgagacgcga 60
gacgcgagac gcgagaaatg gcggagccgc ctttgccgc cggtgcacg acaaactgga 120
ggagggaggc cgatgagcgg ctgcggtccc gccagtcctt cctcttcggc gccgactccg 180
cactcgacca tggggatcct acggtcgcac aggcgctcgc tctcttcctc cacggcatcc 240
tcttact 247

<210> 7285
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-D12

<400> 7285

cccacgcgtc cgcccacgcg tccgagagca aaggcagcac actcagctat ccagcaaaag 60
 agatcgagac gcaggagtca tggccaccgt cagcgccgcc gtggtgacca ccatcgttgc 120
 ccgcgccgcg atcgccaggc ccaatgctct agggctgcct gcgttgaggg cgaggagcga 180
 gaggggtgcg tgcagctacg ccaaggatgc caagaacgcg gccccagtca gcaccaaggg 240
 cgcaggcgcg tgcgtgctcg ccgcagcggg cgcggtgacc gcgtcggcgg ggccccgcgt 300
 ggcgctcgtg gacgagcgca tgtccacgga gggcaccggg ctgagcctcg ggctcagcaa 360
 caacctgctg ggg 373

<210> 7286
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-D2

<400> 7286

agaataaagg gtgacagtga agctgaaagt tcgagtgata gcagctctga agatgctaga 60
 agcaagagac accgccatgg gcggaagtcc aaggcatcat ctcaagtttt tgaggaaaat 120
 attgctgcag tgtctgcttt gaaggatgcc acgtcacctc aacgaaagag tggcatacca 180
 aacagtccag cacaagatgt ctccccgctg caaaatgggg aaaactatac aaatggtggt 240
 aatgaatcaa aaattgaaag gaatgcagct gtcatgcctg ttctaactgg caaccaaagc 300
 aaatctagga gccagagcat gagtgttaat cactcaatga gcaagagtat gagcatcagc 360
 ccaagaagaa gcccaa 376

<210> 7287
 <211> 336
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-D4

<400> 7287

cgcgtccacg gaagcgtggg cgcagtgtgag gtgctgtcca gcattgagca caataatgca 60
 gaataacttg gggatgaccc attgacggct gcttcgctgg tcaaatacacc tctgtgtgca 120
 gaaacattag gcacagtata aatgatgaag gatacaacgg attgtcacag ttttggtgcc 180

tttgactgta attggcagag tttctgggga cacagtggaa tggattaatt gcacctgatc 240
 actctgtatg tcgctgtcat gtctgcaatg ttcaagacgt acgtgatata gaatggaaat 300
 atatgccgca taggtacgag agaagggctg tcgctc 336

<210> 7288
 <211> 366
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-018-Q1-E1-D5
 <400> 7288

agattctagc taaaagtcaa actgtggctg gatttttctt tgttcaatat gctcacttgt 60
 ggcaagatca tcttaacaaa ctttttgacc tgtatgcctc tggaaagcta aagggtttccc 120

tagaccccaa gcaattcttg ggtgttgctt cagtcgtaga tgcggtcgaa tatcttcatt 180
 ctggcaagag tgttggcaag gtcgttgtgt gtattgatcc atcatacggt cagatcgttg 240
 caaaattata atccatggac atgatgcgca ttgtcttcca tggtcacgta gggtactgtc 300
 ttatagttac acatatacct caagaccgta ttttcccagc gggtgacaaa tgaataaggg 360
 aacatg 366

<210> 7289
 <211> 390
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-018-Q1-E1-E12
 <400> 7289

cccacgcgtc cgcccacgcg tccgattgca gcagaactgg aaagtgaagc ggcagcgggc 60
 tgttgggagt ccaggaagtg aaggcttcat gtttgatcta gttgatagtt ctgagctaga 120
 cacaacaaca gtgcttcgat tatcaccatt atctttaatt ccgattgatc aagactcttc 180
 aggcactttg tctgtacaaa ttccacagaa gtctttgcgt tccttgagcc ttaaatttca 240
 tggagacata gtcaatattg cagaaagcag tgctatcaaa aagaaagaag gcacatcaac 300
 caacactact gctgaagccg aaaatgatgt tttggcagat gatgatgtca ataagtctat 360
 tagacatgca aattccatcc ttcgtgatat 390

<210> 7290
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-C8

<400> 7290

agagtgcac caaacaggag ggctaatagt tgtactccct ccgtttcttt ttattagtcg 60
ctggatagtg caattttgta ctatctagcg actaataaaa agaaacggag ggagtactat 120
tttttagcta aaccttgaac tagttattag ccaactagct agccaacacc agctactttg 180
agctccacat cccaactagt aactagcctt agctcatcca aacaagccct aaaacatgaa 240
attgatgctt actatgggca tttggtgaga attttaggcc tgatgggatt gcagaaattt 300
gagtgc aaac agcaaagtgt ttatctctct gtccagctag cttattgggt tcattttcat 360
agtcttctta cgagaact 378

<210> 7291
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-B11

<400> 7291

cttgcttgag tagcgaagcg cgagagcaat ggcgtcgctg tcgtgcgcct ccacgctgcc 60
ctggaccccc gctcctccc cgcggccctc ggcggaccgc cgctcacgg cctctcgccg 120
ggctccgctg ctggatcatg tcgcccaggg gaaggtgaag aaacaccctc aggtcatatt 180
gacagatgac atagaagagg tggggaagaa aggggataca atgaaggtgc gagctggatt 240
ctaccgcaac tccttgcttc ccaagggcaa ggctgcgctt ctaaccccag cagtccacaa 300
gcaaaataca atagtggcat ctgagaatga aaatccacct ttaatgccgg caatcatgac 360

<210> 7292
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-B3

<400> 7292

gggccgagca cgcgctccacg gacacgtggg cggacgcgtg ggcataattc tttatacagc 60
caagcaaagg acagcagatg cagtttctac agtggagtcc cttcctcgcc ccaccagcac 120
aaggttcctt tcatacgaag aactgaaagt ggcaacaaat aacttcgagc cttcaagtgt 180
gcttggagaa ggtggttttg gccgtgtctt caagggggta ctgggtgatg gcaactgctgt 240
cgctataaag aagcttacta acggagggca ccaaggagat aaggagtttt tagttgaagt 300
ggaaatgctg agcaggttgc accaccgga tcttgtgaaa ctgattgggtt attacagcag 360
ccgtgaatca tcacag 376

<210> 7293

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-C12

<400> 7293

cccacgcgtc cgcccacgcg tccggagcat ggtagcccat taaggttacc tggccaccca 60
gtgaatggtc agccgatgga tctggagggc tggtcagga ttcaaacaga ggcttctcag 120
catatggggg ttctacaagc atcatcaatg ggctggaatg gtgctcctgt acttgetgcc 180
actcctgttg tcaagaaagt catgaggctg gatgttccag tagacaagta tcctaactac 240
aactttgttg gtcgtttatt ggggccgcga ggtaactccc tgaaaagggt tgaagcttca 300
acccaatgta gagtttacat tcgaggacgg ggttctgtga aagactctgt 350

<210> 7294

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-C3

<400> 7294

gcgtccgctt tatttttttt tttggtttca atgtgtgtct gtatgtactg aactgtacaa 60
gcttatcgag aaagatcact gcgagtctac aacaatccac acccaacaca ggcggtggac 120
acaacccatc caataatctt tcatgagtac agtgtcggag tcatcggcca atttcttcaa 180

aattatcatt aatttatgat gttcatgtaa ctatagtcgt aggataaggc agggccggtt 240
 tggtttcac acgcggatgg gagcaccttc ttgacgatct catcactgag cgaggcgatc 300
 tgggctcga ggccttaac agcctcctcc ttctgcgcct cgaggttggc gagcgctct 360
 acgagctcgg cctccaaacc gctgcgccc 389

<210> 7295
 <211> 348
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-C6

<400> 7295

gaccacaaac gtcagccac gcgtccgtag ccatgggcag cgcactatc atcatcacct 60

gtcacgctcc tccgccgtca tcgtcacacg ctgcaacgct cctccatcca tggcgcccaa 120

gaacgctctc cccgcccga gcggtatgac tctggagccg aggtaccgag gcgtccgaa 180

gcgcccctgg ggacggtacg cggaggagat ccgggatccg gccaggaagg cccgcgtgtg 240

gatcggcacc ttctacaccg ccgaggccgc ggcgcgcgc tatgacaccg ccgcgctcca 300

tttccgcggg accaaggcga cgaccaactt cccgcgcgc ttcgacca 348

<210> 7296
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-B10

<400> 7296

cccacgcgtc cggtaaactg aagccaactg ccaacccaac gaaggccaga actgcgcgcg 60

cggaacctgt tcgacgaatt ggcgcactgg ctatggcgct gctacgcgc gcgctagccc 120

agccgttatc gccgcgcccc gcgtcccg tccgccaccc tccgacctcg ctgacaggct 180

ccaggtttat cctcgacttc tcgttccgc cacatccagg ccccggcgcg ccccggcgcg 240

agtaccccag gatcgaggcg acggcgaggc gaggcgcgcg aactgagagc gccaaagtca 300

ggaaccgtcg gctgcagaag aagttcaacg gcacggcgac gaagcccaga ctctcggtgt 360

tctgctcaa ccggcagctc tacgtgtgc t 391

<210> 7297
 <211> 349
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-017-Q1-E1-H4

<400> 7297

ccgcccacgc gtccgattac agtattccac cttgcccttg acctctactc caagtataac 60
 gttacggaaa tgctgtcaag tggagggata caggtttcaa atggtaagga atatgcactg 120
 agcgatgtca tcgataccat caaacatgct tttgggggat cgccacaaat tgtttgcaag 180
 aggggttcaa tcgaagaact taggttatgc ttcgacaaag aattgaagcc tcgtgattgc 240
 cttaccactt ctttggcgaa tggaagtgtg tcaaaaagca agcactgccc gcggtacatc 300
 accttgccaa catatgatcc ccttgtgctt gccaatcaa ctgtagaga 349

<210> 7298
 <211> 251
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-017-Q1-E1-H5

<400> 7298

gaccacgag tccacaaaat atccccaac cctagctccc gatctcgatg gcgaatcctc 60
 gcgtcttctg cgacatgacc gtcggcggcg ccccggcggg ccggatcatt atggagctgt 120
 acgccactga tgttttactc accgcgtagg aggtggcatt gaagatcatc ttctttaagt 180
 tctacctatc gctgattaca tcggttcaga agtaactttt caaagctaac gctcgtccga 240
 tcaatctgaa c 251

<210> 7299
 <211> 389
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-017-Q1-E1-H6

<400> 7299

actggtcaaa tccttgcgag cctcgatcatg aatccaccaa aggttgggga cgaatcatat 60

gcttcctaca aggcagagaa agatggaatc cttcagtctt tagctcgccg tgcaaaggca 120
ctggaagatg cattcaacac gcttgaggga ttttcatgta acaaggctga aggagcaatg 180
taccttttcc ctcagatcca tctgccacat aaggcaattg aagctgctaa agctgccaag 240
aaagcacctg atgcattcta tgcgctccgt ctccttgaat caactggaat tgttggtggtt 300
cctggatctg gatttgGCCa agttcctgga acatggcagc tcagatgcac gatcctgccc 360
caggaagaca aaatccccgc gggtgataa 389

<210> 7300
<211> 451
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-017-Q1-E1-H8

<400> 7300
cccacacatc caccacgcg tccgcccacg cgtccgcca cgcgtccgat tacagtattt 60
cacccttgcc cttgacctct actccaagta taacgttacg gaaatgctgt caagtggagg 120
gatacagggt tcaaattgga aggaatatgc actgagcgat gtcacgata ccatcaaaca 180
tgcttttggg ggatcgccac aaattgtttg caagaggggt tcaatcgaag aacttaggtt 240
atgcttcgac aaagaattga agcctcgtga ttgccttacc acttctttgg cgaatggaag 300
tgtatcaaaa agcaagcact gcccgcgga catcaccttg ccaacatatg atcccccttgt 360
gcttgccaat tcaactgtag agatcatgac acagttccaa gaaatttgat ttgcctgaag 420
ctctttatc agcttaaaat gcaattgttg c 451

<210> 7301
<211> 364
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-018-Q1-E1-A11

<400> 7301
aagatcaaga ccgacaagcc ctacgggatt gggggtggcc tgaccgtcga cgtcgacgcc 60
aacgggagaa agggcaaggg caaggcggtg taccagttcg tcgacaagta cggcggaac 120
gtcgacggat acagcccaat ctacaacgag gatgactggt cccccaccg cgacgtctac 180

gtcgggtggaa ccactgggct tctgatctgg gccgtcacc tgcgtgggat cctcggcggc 240
 ggcgccctcc tgcgtctaaa caccagcgcc ctctcgggct aaggatatcc aatgcatgcg 300
 cttcttgcca ttgcgtcatgt aaaatcaggg tgtctgtcta taatctagcc tccatggatg 360
 ctca 364

<210> 7302
 <211> 368
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-018-Q1-E1-A2
 <400> 7302

acaatttctt ccattcaacc aactgtctac actgaaccct gctgcttatt tgcagcaaca 60
 actattacca tttagccagc tagctactgc ctactctcag caacaacaac ttcttccatt 120
 taaccaattg gccgcaactga acccgcgtgc ttatttgcag cagcaaatac tactaccatt 180
 tagccagcta gctgcagcaa accgtgcttc cttcttgaca cagcaacagt tgctgccttt 240
 ctaccagcag tttgcggcta acccgcgaac cctcttataa ctacaacaat tgttgccctt 300
 tgtccaactt gctttgacag acccagcggc ctcttacc aaacacatca ttggtggtgc 360
 cctctttt 368

<210> 7303
 <211> 129
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-018-Q1-E1-A3
 <400> 7303

acctcagctg attatcctga gcagtggcca agtctccttc attgggtttc acacaattta 60
 gacttgcaga accaaatttt tggtgcttta catgtcctga gggttcttgc cagaaaatat 120
 gagttcaag 129

<210> 7304
 <211> 293
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-018-Q1-E1-A5

<400> 7304

ggacgcgtgg gtggtgcagt cattggtaca aaccatcagg gcacaacagc tgcagcaact 60
cgtgctacct gtgatcaacc aagtagctct ggcaaactt tctccctact ctccgcaaca 120
acaatttctt ccattcaacc aactgtctac actgaaccct gctgcttatt tgcagcaaca 180
actattacca tttagccagc tagctactgc ctactctcaa caacaacaac ttcttccatt 240
taaccaattg gccgcactga accccgctgc ttatttgcag cagcanatac tac 293

<210> 7305

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-A8

<400> 7305

gacccacacg tcaacggacg cgtgggcgga cgcgtgggcg gacgcgtggg gcacgcagta 60
cgccggcgag atgaagaagg ggctcttcgg cgtcatgcac tacctcatgc ccaagcgcg 120
catcctctcg ctgcactccg gctgcaatat gggcaaggac ggcgacgtcg ccctcttctt 180
tggcctctca ggtaccggga agacgacgct gtcgacggat cacaacaggc ttctgatcgg 240
cgacgacgag cactgctgga gcgacaatgg cgtgtccaac atcgaggagg gctgctacgc 300
caagtgcacg gacctggcgc aggagaaaga gcctgatatt tggaacgcca tcaagtttgg 360
aactgtgct 369

<210> 7306

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-A9

<400> 7306

gaattcttaa ttcattgagt gtagggaggg acttatgtca ccacaaacag aaactaaagc 60
aagtgttggg tttaaagctg gtgttaagga ttataaattg acttactaca ccccgagta 120
cgaaaccaag gatactgata tcttggcagc attccgagta actcctcagc tcgggggttcc 180

gcctgaagaa gcaggagctg cagtagctgc ggaatcttct actggtacat ggacaactgt 240
 ttggactgat ggacttacca gtcttgatcg ttacaaagga cgatgctatc acatcgagcc 300
 cgttcctggg gaccagatc aatatatctg ttatgtagct tatccattag acctatttga 360
 agagggttct gttactaaca tggt 384

<210> 7307
 <211> 383
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB189-017-Q1-E1-H3
 <400> 7307

acggacgcgt ggggtggaat tctctgaccg agtgtgtggc caatctctcg gccataaagc 60
 tggagactgg taagttgctg cttgaacccc tagaccgact gaagaaggta gacgcccagg 120
 tcaattttac tcaaggaatc cttgaaggga ttgtangaga ggagcttgga gttttacctg 180
 gaatggattc gatctgttta gtcttagctc ttcagaagct ccttaatttc ttttcatctg 240
 gaaggagtaa ttcacaatca gaatttgatg tgatcgtgta tgattgcaac aatacagagg 300
 aaattctacg gctgataagt gctgctgacc gggcaagatc ttacttgagg tatgtgaggg 360
 accttgctga gaaaactgac atc 383

<210> 7308
 <211> 424
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-017-Q1-E1-G1
 <400> 7308

acggacgcgt gggttaccat aggctcattc atcgaaacgc aaatcagaga gacaggaaaa 60
 gaaaaaagaa ttttgatcaa atcaatagaa ggaaggatcc cttacctgat ttgaatttca 120
 tcttccttta aataggatat gctctaagtc ttcccatact ttcctataat gactgcaacg 180
 attttctcca ttttgcaat tcctatttta tttgaagtat attactatca tatacattat 240
 ctaaatcgat ccactttaaa taaaatagaa aaaatcgaaa gaaaaaaaaa aaaagaaaga 300

gtaaataata aaacaggata ttctgtttca taattctgaa atagagttct tttttttagt 360
attactcttc attaggatgt atatattaat catcctaatt taataaaaaa taaatcaccc 420
aatt 424

<210> 7309
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-017-Q1-E1-G2

<400> 7309

ccacgcgtcc aacggaattc gatggggaaa agccggagcc ggcaaagggt tgacctgtaa 60
ctctgcaccg gatgatctca taataaggta acactggcat tttggtaacc atagacgaat 120

aagaatgagg gaaatttcag aacatgttcc ggtgatacta attagctaga ggaaaatttg 180
acacggaaag ttccttattc tgtacaatgt gcctttgtgg tgagtaaaga tgtccatttc 240
atatggcctt tgtgatgagt atgtctgcat tgaaaagtta gtgctttcat tcttgataat 300
ggacacttcg atttgattca aaaaagataa tcagtttcat aattctgaaa taaaattcat 360
ttttta 366

<210> 7310
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-017-Q1-E1-G4

<400> 7310

gacccacgac gtccagcctg cccgagccgc cgctcacctt gctaaagttt gccctgtaac 60
tcagtaccgg attatcgcat agggatgtaa cactggcatt ttggtatcca tgaacgatta 120
tgaatgaggg aatatttcag agaatgttcc ggtgatgcaa actaactaga ggaaaatttg 180
acacggaaag ttccttagtc tgtacaatgt gcctttgtgg tgagtataga tgtccatttc 240
atatggcctt tgtgatgagt atgtctgcat tgaaaagtta atgctttcat tcttgataat 300
ggacacttcg atttgattca aagacgatat tctgttgc at aattctgaaa taaagttcct 360
tttttttagta tta 373

<210> 7311
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-017-Q1-E1-G5

<400> 7311

acgcgtccga aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaaa aggatggacg tccgccttga gaccttgccct caccgagtgc tctcgggtgag 120
ctactttggtt tcgatttatc acgaaatccg tttgcttcat gttgtgcatg ctcatatctg 180
attgctggat tcggtaaacc ctcatggat cctgtatcgg ttagtccttg ccatgcaagg 240
ttcttgtatg ttatgttttg gtggtcgagc atcgcatgtt ctgcttctgg atccagatct 300
ggagaaatcg cgaagtcatc gtcgttcggg tcggagcgga tctaaagcga ctatatatgg 360
aggctgcggg atctctcggg ct 382

<210> 7312
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-017-Q1-E1-G6

<400> 7312

gacgtacgag tcaaccacg cgtcaggcgt tccacgcgtg cacgcacccct catctcgtcc 60
tctagatcca ggatggccgt cctccttgag acctggcctc accgagtgcct ctcggtgagc 120
gactttgttt cgatttatca cgaaatccgt gtgcatcatg ttgtgcaggc tcatatctga 180
ttgcaggatt cgggtataccc tcattggatt ctgtatcggg taatccttgg cttcaacggt 240
cttgggtgta tgttttggtg gtctaccatc gcatgttctg cttctggatc cagatctgga 300
gaaatcgca attcctcatc gttcgggtcc gaccggatct gaagcaacca ttatacgagg 360
ccgcgggatc tctcggtc 378

<210> 7313
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-017-Q1-E1-G7

<400> 7313

acaacaagca acatagaaag tggaatccag tagcaacaat agagcaacaa tggagaccaa 60
gatattttcc ctccttatgc tccttgctct ttctacatgt gttgctaacg cgacaatttt 120
ccctcaatgc tcacaagctc ctatagcttc cttttttccc ccataccttc catcaattat 180
agcttcagta tgtgaaaacc cagctcttca accatatagg cttcaacaag caatcgagc 240
aagcaacata cttttatcgc ctttggttg tcaacaatcg ccatccctat ctttggtgca 300
gtcattggta caaaccatca gggcacaaca gctgcagcaa ctggtgctac ctgtgatcaa 360
ccaagtagct ctggcaaacc tttctcccta ctctcc 396

<210> 7314

<211> 376

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB189-017-Q1-E1-G9

<400> 7314

gaggacagca agggctactt gatcattggt agcctgcctt tctctgattt tcagaaggtg 60
aagggttcat ggaagaatac tcttacgaat gggattgtta aggtatcttg cattagcggt 120
ggtaggatgc cattattgaa aaggcatgat cggactttca agttggcgga tccttctcct 180
gagcattgcc caccaggaga gtttgtccgg gaaatccac tgcctaccg gatccctgaa 240
gatgccactc tggaagcata ccgcgatgaa acggggacag gcctggagat tattgtcnca 300
aagtaccgtg ttggccctga agaacatgag gtgcatgtgt ccatgagacc gccctcgta 360
tggtgccaat gaaact 376

<210> 7315

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-017-Q1-E1-H1

<400> 7315

agagaagatg gcgacggcgg cggcagggtt ggctccggca aaggaggtgg tggagaagaa 60

ggtggaactc ctgaaggaga tacgggcgca cgaagtggcg atcgcgagc tagacaacct 120
 gaatccctcc cgggcggtgt accagaaagc tggcaacatc ttcttctgta agagcgtcaa 180
 atcggtgatc acaacggagc agaagcaact tgaccaagcc aaggctcggc tgagcaagct 240
 gaaccaagct tgatgggcag cacgctacaa atgttgacct tgaacacaat agagcatgca 300
 gatttgaatg gtcttctcgt tgctcattaa ttctgcagtt gggcgttgtg gacctaatacc 360
 atgtgtaatg ctactttctt t 381

<210> 7316
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-017-Q1-E1-H10

<400> 7316

ttcccgggac gcgtccgatt tgtctgctac agatgcaaga aatttgggga actctattgg 60
 gccctggaac tgtgaacttt gtgaagatca agacatttca tcagaaccgt ccgcgactct 120
 gcgcgagaag cgagagtatg gacaccaag tgaagcttgc tgttggtgtg aaggatgatg 180
 gaaggaccgg ctccaggggt caggttacct aggtcagagt gaagttcttg gatgaccaga 240
 accgtctcat catgaggaac gtcaaggac cggttcgcga gggagacatc ctcacactgc 300
 tcgagtctga gagggaggct aggaggctgc gttgaggcgg gatactgtct tggtagtttt 360
 cgatggagt tggatgtcat ctaattgtgc tatgtttgtc aaa 403

<210> 7317
 <211> 371
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-017-Q1-E1-F8

<400> 7317

ggtacgcgtc ggcagacacg tggccacaa gcgcaacgca gtccagtgtc cctctgttgc 60
 agaaccaggt ccaggatatc ctgcaactgt cgatgaagct tcggctatgg ctcacgtcgt 120
 aagtgccgca tgaagtacct tgatctgcat gatagcacca acggcgacaca tgccagcgta 180
 gtactcgggc tggcacacga aaagcaagca gcacacgtct tactcatcgc cgctgaggac 240

ttcgtgaacg cgcgagtcg cgtcactgag gtcggcatcg caagtgcgag ctctgcatct 300
 gatgatgaca tccattaacg atcatcgctc taactacaac caagcgacct tgtcctgctg 360
 catgagcaac a 371

<210> 7318
 <211> 392
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-017-Q1-E1-E4
 <400> 7318

tcaacaatgg caccgggttt gaaagggttg accagaaaag gaacccaaag aagaattcaa 60
 ttaaaaagaa atgatgaaaa atcaaaacgc cctaattgtg acaattttgc aagtcacgct 120
 gtgcgtgtgg ttgggtacta tcataatttg atttattcta tatgtttgtc gattcatata 180
 acgatattgc aagtatttgc cgaacgtggt tgaattagca agacatatag ctgtgagctt 240
 tgatagcctc ccatattttt ttcagttcat attttacatt aacgtttttg tgcgggtgctt 300
 gaaaatattt cgagcgtggt gttgtttttt ttcagttgtc ttagtcatgg actcatggta 360
 gaatgctacc gcttttaagg ctattgtttg tc 392

<210> 7319
 <211> 361
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-017-Q1-E1-E5
 <400> 7319

catgcagaat gggcagaaga tcacattccc tgggtgaagct gatgaagcgc ctgacactgt 60
 cactggagat atcatttttg ttctccagca gaaggagcat cccaagttca agagaaagg 120
 cgatgacctc ttctacgagc acacctgac cttgactgaa tctctgtgtg gcttccagtt 180
 tgttgtgact cacttgata acaggcagct gctgatcaaa tcaaaccgg gcgaagttgt 240
 gaagcctgat tctttcaagg cgatcaacga cgaaggcatg cccatgtacc agaggccgtt 300
 catgaagggc aagctgtaca tccacttctc ggtggagttc ccagactcgc taagcccgga 360
 g 361

<210> 7320
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-017-Q1-E1-E6

<400> 7320

cccacgcgtc cgccacgcg tccggagcaa gcagcgagac gtcggcgacg acgctgaagt 60
gggcaatggc cgagctgatg cggaacctgg cggtgatgcg gaaggcgcaa gatgaggtca 120
ggggagcact cgccggccac gacgaggtgg cggaggacag cctgggtcaat ctgcggtacc 180
tgcagctagt cataaaggag acgctgcggc tgcacccgcc ggcgccattg ctgctgccgc 240
gggagtgccg cagcccgtgc caggtgctcg gctacgacgt gcctcgtggc accatgggtgc 300
tggtgaacgc gtgggcaata ggcagggact cagcgtctgt ggacgcgccg gaagatttcg 360
tgccgga 367

<210> 7321
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-017-Q1-E1-E7

<400> 7321

aaataaacc ttatttctgc ggagtcgagt ataccttgag aaggtgttgt atttgcttga 60
agtagttatt aacaatgctg catcccaagt tgattgtcca cctcactctg tacagataac 120
taacaattca gatattgaat tcgttgatgg gacaccatat caaacacagg tggaaccatc 180
tactttggaa caaggtcata tcccggataa taaccaaagt agagatgttg aggtcccacc 240
atcttgtgct aaactggatg ttaatgtgca tgcaatcctt acccaacttc ctgatgctga 300
attgcataat ctgtgcaata ttcttgact tgagggtctt ccagataaag tgtactcact 360

<210> 7322
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-017-Q1-E1-E8

<400> 7322

cccgtgggct cattgcgtgc ctctgccgt gttcgatcga tcggatcccc atacgatcta 60
ctagctagct aagctacacg actcgaccga ggaggaggag cgcgctcagg ccgtatagaa 120
acttgagca tgctgtaac caccgaagt tttgggcctc ccggctacag gcggtggtgg 180
atctattaca tcgtcaacga tactgatcaa ttgagtaaag ctctgaaccg acatgatcac 240
ctggtggtgt tcatgttctc ggcggagtgg aacgaaccct gcaaggcgat gaagaaaccg 300
ttcagggaca tggccagggc tagaaagatg caggccgtat tctgcttggg ggacatcgac 360
aagcttaaag atgctgtggc gc 382

<210> 7323

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-017-Q1-E1-E9

<400> 7323

ggcggagaaa gcaacggtgc tggcgctgc gccagagcgg cgcgaagagt tcgacggcgg 60
gcggatcgtg gacatcagcc actactaccg cgaggacatg ccggagtggg agtcacaga 120
gggctccggc gagttcctgc agctggcgcg gtccatgcgc aacggctccg acatcgctaa 180
cttctcggag ctccggctca ctgcgcactc cggcaccat gtcgacgcgc cgggacacgt 240
cttcgagcac tactacgaca ccggcttcga cgtcgacacc ctcgacctcg ctgtcctcaa 300
cgagttgaaa cgggtgtgcag gaccagcgct gttggttgac gttcctagag ataagaacat 360
cacagctgat gt 372

<210> 7324

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-017-Q1-E1-F1

<400> 7324

cccacgcgtc cgaaatgaaa taaataaaga ataaagccaa aaaaataagt cgaagataga 60
agagcccaga ttcaaatga agaatggaa actcgaaaag gatccttctg attctcaaag 120

aatgaggggc aaggggattg ataccgagaa agattttcttc ttattataag acgtgatttg 180
atccgcatat gtttggtaaa agaacaatct tctcctttaa tcataaatgg aaagtgttca 240
attagaacat gaaaacgtga ctcaattggt cttagttagt cttcgggacg gagtggaaga 300
agggcggaga ctctcgaacg aggaaaagga tcccttcgaa agaattgaac gaggagccgt 360
atgaggtgaa aatctcatg 379

<210> 7325
<211> 388
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-017-Q1-E1-F11

<400> 7325
acatgatttt ggcgatggtg tctcctgtca ctcattctgt gggcaactgt gttaaactgt 60
ttgtggatcat tgtaacatca gtgctgttct tcaggacacc tgtttctcct atcaactctc 120
tcggtaagca tgtttcttaa cctgtttctc tgtctttggt ctatttcac cttctgttgt 180
atcaccatta catgctttca tctgtgtgta taggtactgc gattgcactt gccggagttt 240
tctgtactc acagctcaag cgacttaagc ccaagccgaa gacggcttaa atagggattg 300
tattttccat ctctttgtgt taatggagtt aaacacttct atgtttcagg tgactgcatt 360
ttaaaagatt tgtgcttata acaacaac 388

<210> 7326
<211> 363
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-017-Q1-E1-F3

<400> 7326
accttaaagg ctttgcaacc taacttttca acggtaacaa aaaaattcac ttcaaattc 60
atggaaaacc cccacaaaaa tattctcaca aaacccttgc acaatcaagg aaggacacaa 120
ttaaaatttc aataccatga taacagtgat ttaaagacta ctacgatct taccgtgtgg 180
tcttcaagaa ctgagcaaca gagaaacaat attgctgccc agacaaagct atgtctggag 240
ggttggacgc caactagaag tcctgaaggc tacaatcaga tattctcggc atttaaacca 300

ctgaaagata tacataaccc acttggctct tttcctagtc aaatatctgg gactcactca 360
aat 363

<210> 7327
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-017-Q1-E1-F5

<400> 7327

agtcctctcc ggagaaccag aaggctaccc accctccaag gcaggggagg ggccatggac 60

gaccccgctc agcgcttgaa ggacgggttc cacaagttca agaccgaggt ctatgacaag 120

aagccggagc tgttcgagcc tctcaaggcc ggccaggccc ccaagtacat ggtgttctgc 180

tgctccgact cccgctgtg cccgtcgggtg aactgggac tgcagcccgg cgaggcattc 240

accgtccgca acatcgccgc catgggtccca gcctacgaca agaccaagta caccggcatc 300

gggtccgcca tcgagtacgc cgtgtgcgcg ctcaagggtg aggtcctcgt ggtcattggc 360

cacagctgct gcggtggcat caaggcgctc ctctcctcc aag 403

<210> 7328
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-017-Q1-E1-F7

<400> 7328

accacgcgt ccgaggacgc gtgggtctt ttcagttatc actagatgta aacaccctat 60

tttacagccc ctcacatata ctacttgac acccacaaaa acagatcaaa ttttgcaact 120

taatatTTTA gtaatttgtt tttcttttat ttatatggac caccagatag tggatctgag 180

ggactataaa agagattctt tgtatgccgt atgcaaagaa ttttttccgt ttgatttaaa 240

aaaaaaaaa aaaaaaaaaa agaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300

aaaaaaggca aaaagtaaca gttgcacaaa gacgaaagag aagtcocgaa tttcaatgag 360

<210> 7329
<211> 350

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-017-Q1-E1-D1
 <400> 7329
 cccacgcgtc cgcccacgcg tccgcccacg cgcccgccca cgcggtccgcg aggcggggat 60
 gacgagccca atggtggcca ccccggtcca gttccacaca accggccgcc tcagcttctg 120
 ctctttttcc tttcccagcg catcagggag gcggcgattc gcggcggtga gggcggtccg 180
 ggagacgatg gcgacggaga agctgggcat caaggtggag cgcaaccgc cagagtcccg 240
 cctctccgag ctccggcgcc gccagtggcc caagtggggg tgcgagaaga gcaagttccc 300
 gtggacctac tccgccaagg agacgtgcta cctgctgcag gggaaggtga 350

<210> 7330
 <211> 381
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-017-Q1-E1-D11
 <400> 7330
 acccacgcgt ccgcccacgc gtccgggtcat gctgcatttc tgtcgaagaa cacatttcac 60
 atgccgacag gtttttatga tactatccca gaaccagtgt tttggcctgt ctttgtgggtg 120
 gccacacttg ctgctgttgt tggtagccaa gctgttattt cagcaacatt ctccattgtg 180
 aaacaatgcc atgctttggg atgtttcccg cgagtgaagg ttgtccacac atcgaggtgg 240
 atctatgggc agatatatat tccagaaata aattggattc ttatggttct ttgcgtcgct 300
 gtcactattg catttcgtga tactactctt attggcaatg cctacggtat tgcattcatg 360
 actgttatgc ttgttactac a 381

<210> 7331
 <211> 371
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-017-Q1-E1-D2
 <400> 7331
 gtgagcggaa ttcgatgtat ggtaatccaa gtgaccaaca gcagggtttc agctttgggc 60

aaaacacatc aagttggttg aaccagccac ttccccaggt tgaacagtca cgagtgggtca 120
 ggccgcatgc aacggttgct ccatttgatt tagagaagac tagagaaggc agtggggttca 180
 aaatatttgg tttccaagtt gatacaacca atccatcacc tgtccaattg agctctccat 240
 tgtctgctat ccgagagcat gtggtacaaa ctcgaccatc ggcaccagtg aatgaattgc 300
 aacctgtgca aattgagtgc ttgcctgagg tgtccgtaag cacagctgga actgcagctg 360
 agaacattca g 371

<210> 7332
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-017-Q1-E1-D3

<400> 7332

atgcgattgt ttggtttaca taattgtaat gtgacgggta atcgataaaa aaaaaaaaaa 60
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aataaaaaaa aaaaaaaaaa ataaaaaaa aagaaaaaaa aattaaaaag gggggccccc 240
 caaaaaaaca aaacctttac ccaacttaaa cggcattcaa aaaaccccca aattggctac 300
 ccaaaaataa aaccaaaggg gccctttaa aaaccccttc caagaaaaaa cccaggctta 360
 aaacaaatat gccaccgtca aaaaaaacc cctttccaca aggggggtat aaacgaaaaa 420
 gc 422

<210> 7333
 <211> 362
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-017-Q1-E1-D5

<400> 7333

ggctttctct cccccaccgg ttcgtgttca ggttctggtt cgtgggagag agggaagaga 60
 tggcggcgtc ggacgttgag taccgttgct tcgttgggcg cctcgcttgg gccaccgacg 120
 accactccct caacaacgcc ttcagcacct acggcgaggt cctcgagtcg aagatcatcc 180

tggatcgga gacgcagagg tcccgcggct tgggttcgt caccttctcc acggaggacg 240
 cgatgcgcag cgccatcgag ggcatgaacg gcaaggagct cgacggccgc aacatcacgg 300
 ttaacgaggc ccagtcccgc ggccggcgtg gaggcggcgg tggcggatac ggtggcgggc 360
 gc 362

<210> 7334
 <211> 380
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-017-Q1-E1-D6
 <400> 7334

cccacgcgtc cggattcatc gcgattttaa ggcaagcaac attcttctgg agcatgatta 60
 cacacaaaa gtgtcagact ttggacttgc caggactgca aggggagagg ggaaccagca 120
 catctctacg cgtgtcatgg gaacattcgg ctatgttgcg ccagagtacg ccatgacggg 180
 tcattcttctt gtaaagagtg atgtgtacag ttacggagtt gtattgcttg agtcctcac 240
 tggtaggaaa cctgtggata tgtcacggcc cgctgggcaa gaaaacctag ttgcatgggc 300
 tcgaccgctt ctaacaaatg ttctgagtct acgccaagct gtcgatccac ttcttggacc 360
 taacgttcca ctggacaatg 380

<210> 7335
 <211> 366
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-017-Q1-E1-D7
 <400> 7335

ctctaccgtg gtttcatgcc ctccgttgct ggtatcgttg tctaccgtgg tctgtacttc 60
 ggtatgtacg actcgatcaa gcctgtcttc ctaccgggtt ccctcgaggg taacttcttg 120
 gcctctttcg ctcttggttg ggccgtcacc actggtgccg gtatcgcttc ttacccctt 180
 gacaccatcc gtcgccgat gatgatgacc tccggtgagg ccgtcaagta caagggtacc 240
 atggacgccg cccgccagat cgtcgccgct gaggggtgtca agtctctctt caagggtgct 300
 ggtgccaaca ttctccgtgg tgttgccggt gccgggtgtcc tgtccatcta cgaccaggcc 360

cagctc

<210> 7336
 <211> 366
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-017-Q1-E1-D8

 <400> 7336

ccctcctcct gtccttggt ctccagctcg ccgtcgcgct cgtctcagtg tcggcgcagc 60
 acaagtccgg gatcaactac gggcagatcg cgaacgacct cccggagccg gcgcaggtgg 120
 cgacgctcct gcagtcgatg ggcgtgaaca aggtgaagct gtacgacgcg gacccccggg 180
 tgctgacggc gttcgccagc acgggcgtcg gcttcacat cgccgtgggc aacgaggacc 240
 tgcaggcgat ggcggccagc ccggacgcgg cgcgccgttg ggtggcggcg aacgtgcagc 300
 cctacgtccc ggccacgcgc atcacctgcg tcaccgtcgg caacgagggt ctctcgggca 360
 acgaca 366

<210> 7337
 <211> 368
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-017-Q1-E1-D9

 <400> 7337

acccaaacgt caaggcacct caccgatcc ctatgggggt ggcagcatcc acctagtgtg 60
 tgatcattgc ggtaccagtg acaactacac cactgacgac gctgatgatg gccaatcac 120
 gtgccgtaca tgctctgccg tgcacactac acaggcaact gctgctgac ctcatgactt 180
 ccccgccact ggcaacatct ctgtccgtcg tgttgccacc cagccaaccc ccaagcttgg 240
 tgcccgcaca cccgcgcctt acctgaggac cctcaggct gctcccgtgc ctgctactgc 300
 cgcttttgat gacttcacag agctgagtga gccgccggac tttgtgtctg gatctggcac 360
 gtgtgggg 368

<210> 7338
 <211> 430

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-017-Q1-E1-E1

 <400> 7338

 aagttcctgg acctaggatg gttcctattc ctccaatagt aagaggaacc ttctattgtg 60
 aaaggtcatg cagcagtctc gaataccatg aagcaaattc tggcatacga catcatgtct 120
 cacacatttg tatcaataca tttcgaatca ataaagtttc cctcactctt tactgtgcac 180
 tttttcctaaa gatcacaatc ttgttgtaat gtgcctcatg taaagcaaac tgcgaacaag 240
 gcatatgata gttttgatac acaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
 aaaaaaaaaa aaaaaaaaaa aaaaaaacaa aacaacaac aaaaacccaa aacaacaacc 360
 cccccaacaa acaaaacccc ccacacacaa caacccccac ccaaccccc acaaaaaaaaa 420
 agggggggccc 430

<210> 7339
 <211> 372
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-017-Q1-E1-E11

 <400> 7339

 cccacgcgtc cgcccacgcg tccgccgagt tctcactgc catgatgaac aggcataaac 60
 tggagaagga ggaggatttg ttccttgctt ttcaacactt cgacaaagac gatagcgggt 120
 acataacaag agacgaactg gaacaagcca tggcggagta tgggggtgggt gatgaagcaa 180
 gcattaagga agtgctggac gaagttgata aagacaagga tgggagaatc gactacgaag 240
 agttttaga aatgatgagg aaggggaagt atacctgagg aagctctgtt ctcatggtgg 300
 gagaggttgt gtatatatgt ttcagcaaat gtgtcaagta caagcaacga agcaagttta 360
 acttagaaca ag 372

<210> 7340
 <211> 373
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-017-Q1-E1-E12

<400> 7340

acggacgcgt gggtagcgaa gcacaaccgt gccgcaaagc ttttcaactt acagctgcac 60
gcactttgca cgaagctgag ggcagaattc gatggagcca gcatcactta cgtggacatc 120
cacacgatca aatacagcct gatcgccaac tactctcgat acgggttcga gcacgccact 180
caggcgtgct gtggatacgg aggcccaccc ctgaactacg atggtaacgt accatgtgga 240
cacacggtgt ctctggatgg taagatggtc accgcaaag ggtgcagcga cactactgaa 300
ttcgtcaact gggatgggat acattacacg gaagctgcga atttccatat cgcctcgag 360
atcctgaccg gga 373

<210> 7341

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-017-Q1-E1-C9

<400> 7341

ccgaggtgaa gtctgttgag atgcaccacg aggcaattca ggaggctctt ccgggtgaca 60
atgttggtt caacgtgaag aatgttgctg tcaaggacct caagcgtggg tttgtggcct 120
ccaactccaa ggatgaccct gccaaaggagg ctgccagctt cacctcccag gtcacatca 180
tgaaccaccc tgggcagatt ggcaacggct atgcccctgt gctggactgc cacacctccc 240
acatcgctgt caagtttgct gagctcatta ccaagatcga caggcgctct ggcaaggagc 300
ttgagaagga gccaaagttc ctgaagaacg gtgatgctgg tatggtgaag atgataccca 360
ccaagcccat 370

<210> 7342

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB189-017-Q1-E1-B4

<400> 7342

ggctctagat acccggggcc gaccaacgct tcgacggacc cttgggcacc ggtttcccg 60

ctcgcccaat tccccgtgc cggcaccaat ctgaaatcaa ccgaacctaa cctttttcac 120
caaaatggtg cttgtacggc atgcaaacat tggtaacaaa aatgcattca aaacactaat 180
tgccgcaaaa tacaccggtg tcaaggttga gttggtgaag gactttcana tgggtgtctc 240
caacanaact ccagagttcc tcaagatgaa ccctattggg aagattcttg tcctggagac 300
tcctgatggt cctgtttttg agagcaatgc aattgcaaga tatgttactc gcttgaaggc 360
tgataacca ctttatggat cttcactgat tgattatgcc catattgagc aatggattga 420
ctttgctgc 429

<210> 7343
<211> 374
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-017-Q1-E1-B6

<400> 7343

cggacgcgtg ggataaaata tttcatgtag gttttgatat cgaagtccag tagtctgatt 60
taattaggag aaccattgat gtacttgtag tccagatcgg agtttatagc ccgcacaagg 120
tagcttgctg taactggcac tgcctcactc tttagagcct tcggttccat gtcagtatgt 180
caccaactca cgatgacaaa ctggaatttg gaatgacatc tgcttggtg gaaatttcaa 240
agccgaataa actatctctt caggcttcat ttgtcanaga ttccaaagta tattaacata 300
gccacccttc gttttccatt ggaatcttaa cctgtaaaat tacgcccgtg caactgatga 360
tggcatcaac acag 374

<210> 7344
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-017-Q1-E1-B7

<400> 7344

cggacgcgtg ggcggtcgag gcgggtagga caggatccag aggtagctag ccatggcgga 60
ggaagcgtct gcgcctgcgg cggggacgga agcgccgccg ggggaagatga cgatgggtgt 120
aggggtcgac gagagcgagc acagcttcta cgcgctgcag tgggcactgc agcacttctt 180

cccgcgggc cagccgcagc agtaccgcct cgtcgctgtc accgccaagc ccaccgccc 240
ctccgcccgtc ggcctcgccg gcccaggcgc cgcggatgtg ctgccgtacg tggaggcgga 300
tctcaagcgc tccgccctgc gcgtcgtcga aaaagccaaa ggcctctgca cacaggcgag 360
cgacgctg 368

<210> 7345
<211> 381
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB189-017-Q1-E1-B8
<400> 7345

cccacgcgtc cgcggacgcg tggggattta tcttgcaa at ggtatgtgga tccgttccag 60
aggcaatgag ccttgcagcc agtttgcagt ataaaaaacc caattatgtc cactgttggt 120
tcgacgcagc gtgtgccgag gatttctact gccaaagcata agtgaattgc agataaatgg 180
tctgttcgca actgggtgctc tcggggcgact ccactactga gcaacccttc gccccgggtgg 240
ctgcggtgtc gcactgggtg acacctgctc gcagttgcat tacaagtttt actgactatg 300
tantttcagg tttattcaat ttcagttgta atgcttctga cagcagttgt atcagtcctc 360
ttgttcagct tccataataa t 381

<210> 7346
<211> 385
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-017-Q1-E1-B9
<400> 7346

attccggggc gagtacgcta tagaaggata cttggatact gaagccatgc atctttaa at 60
tgtaaacttt tctttttgtg gtttagtatg gatgaataaa aggggaaaaa gcaaaagggg 120
acaagcatcc tctgattttt attttgatga tgcaatctta gaaaccctac ctgaactgaa 180
cacctctttt ggcattttta aagtgtcga aaggaaacaa gcacccctctt gcttttgat 240
cttagtatg ttgtcggcat atgtacgcta ttatgtcctt ttttggttaa atatctatta 300

ttcatggggtt tgctgttcac atgaatcgca tatagctatc acctttgctg cattcaggtt 360
 gatgctatgc tccaagaatt agaaa 385

<210> 7347
 <211> 364
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-017-Q1-E1-C1
 <400> 7347

gaaggagcat aagcacaagg agcgctcgg cgagggtgggc gccctcgcgg gcggcgccctt 60
 tgctctgtac gaggggcacc gtgcgaagaa ggacccggcg aacgcgcaga ggcacaagat 120
 cgaggccggc gtggcaacgg cggcgggcgt gggcgccggc ggctacgcgt accacgagca 180
 ccgcgagcag aaggaggccc actacgagag caggcagcag gagcacaggg tgccgcacgg 240
 gcacgggcac gggcacggct actcctacta ctgcgactga aacgactgat catcccatcg 300
 atcgagatat gcatgcagaa ctcgatatat atacggcccc tagcgccgta cacgtgcgtg 360
 cgtg 364

<210> 7348
 <211> 378
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB189-017-Q1-E1-C10
 <400> 7348

cggatatgga caaggcttga tcaccaagaa gggttttaag ggctcattca gcaatgcagg 60
 gtccctctgcc aagacttttg caattctctc tggcgctcag agtttggttt tgtgcttggt 120
 gcgaaggcta cgtggcaagg atgacattgt caatgctggt atagctggtt gttgtactgg 180
 cctcgctttg ggctttccag gggcgccaca ggcatgctc caaagctgtg ccaccttcgc 240
 agcattctca tgcacatgg aggggctcaa taagcagcag gctgcaatgg ctgcgacgct 300
 tggagggact gncgcatgg ccgtgcatga gaaatgtggt gttctgcccc cgttcacgct 360
 tccacctatt cttgatgc 378

<210> 7349
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-017-Q1-E1-C11

<400> 7349

gagattgaca aatcagcgag caaattcttc tcttactggg atcctgacaa gaaggaatac 60
 ctgctgcaat tgtacttcaa gccaaaggccg ccagaaggta gtaaaccacc accagctcct 120
 cctggaactt tgcctaattg gactggggct cctggtgctc caccaaggcc accggggcaa 180
 gctccccac ccccccgcc acaaattcca cggccccctc ctgcacctat gggaatgccc 240
 cctaggattc ctccaccacc tattggggct gttcaacctc cgccacctcc agcacgagtg 300
 gcaaatggtc tgcggccaat gattccaccg ccacctaact tcactcccgg agcaacccca 360
 ccgcgcctc caatgc 376

<210> 7350
 <211> 350
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-017-Q1-E1-C3

<400> 7350

aagggcgcgg gagctggtg ctctgggtac ggggccgggc aaggatctgg ctacggagct 60
 ggcagcggtg ctgccggtg atatgggagt ggcggaggtg gtggaggtg aggtggcggt 120
 ggccagggtg gtggttccg atatggccat ggaggtggtg aaggatacgg ctctgggtct 180
 ggctttggtg gtggtgctgc tggcggcggc ggtggacatg gtggcggtg tggcggcggc 240
 caagtggtg ctggctatg ctctggctct ggctctggct cgggatatg atcaggtgaa 300
 ggatacggac aagtggtgc tcatggagga ggctatggaa gcggtggtg 350

<210> 7351
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-017-Q1-E1-C4

<400> 7351

gggcatcatc cccaccacga gacgaccaa gcaacggcga tggggaagca tcggaaaggg 60
 ccaaaaaagc accacctgcg gcaagccggt ggcaaaagtt ctcaaggcaa ggttccggac 120
 aggctccaa cgcacaagct tcccaggga gtgggcaaca aggattagta gtagtagtaa 180
 attgatcat attggctaaa tgtacagtgc cattgtctgt agaggcttgc agtgccttcc 240
 cagctttgca cgcactcatg tgctccattt gtaaaatcta ggtgagtagg tatatagtga 300
 tgttgataac ctgaacctgt acgtagaaga caacaagcac ccagtgtgc agaacaaggg 360
 tcaaacatgt acaatacaat agaacgaata caagtgtata catacatccg ctgtacaatc 420
 gcggtacgt 429

<210> 7352
 <211> 384
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-017-Q1-E1-C7
 <400> 7352

cctagtgtg cctttccac agttgatgtt ccacgacctt cagagaaaga cagagattgc 60
 ccagctgaaa atgcacagat tgaatgccaa gaagctcgaa aacaggtaca gttcgaaggt 120
 ttaagaattg ctgcttcttc agagtctgat gggagtggaa aaggcgaggt gtcactccat 180
 acggagttaa agctatctcc tgcccagaat gctgatgcca cacctaccat aggagctggc 240
 acaaatgatg cattcaggaa taagaaaaag caggatcgct cttcatgcgg ttctaacaca 300
 cttcaagta gtgatgtaga tgcgggcaat gttcctgagg aggacaatgc taatgagaag 360
 gccaaagcaag cctcctgcaa caac 384

<210> 7353
 <211> 375
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-017-Q1-E1-C8
 <400> 7353

cggacgcgtg ggccaccttg gtccatcagc agcgagcgaa caggcaaaaa ggaaaggccg 60
 agaagcgctt tatccggccg tacgtagcga taagagtggg gcacccgtag cggcacggca 120

tggcggccac ggcgtactcc gtggcgctcc tcggcggcgc acgcctgccg gccgccttcc 180
 tccctcgacg cagcagcgtg tgccaccacc agcttcgcct ccaagacgca ccgaggctga 240
 tctccctgca ccgtgccagg gccgcttccg aggacacgtc ggcctccggc ggcgacgagc 300
 tcatcgaaga cctcaaggca aagtgggacg ccgttgagga caagcccacc gtcctcctgt 360
 acggcggcgg cgccg 375

<210> 7354
 <211> 351
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-017-Q1-E1-B12

<400> 7354
 gcgtccactg taacctgggc ggtagcgtgg gcgcatgcgt atgcggaccc atggccgaag 60
 accaggctga gatgtacgac cacgatatta ttgagttctg gactgcttgg caggagtacg 120
 tgattgtggc ggccgtcttg ctttcaattc tcgcgttcct ttcaaggatt gctgcatcac 180
 tgcattgtga cttcttctaa gtctcactct gccggttacg ggtgctcctc tacgtcgcg 240
 tctatgaacc catgtgcctc acgtatgaca tggggaggat gcttttcctc atcaggctaa 300
 cctttgttgg cgttgtgatg ctagaccgca ttggttcatt cttttgactt t 351

<210> 7355
 <211> 87
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-016-Q1-E1-H3

<400> 7355
 aggacacgtg ggcgcgtcat ccccgaggac gagctgctca acgtccagct cgccactgcc 60
 gactactgat tgacacgtct cctgatg 87

<210> 7356
 <211> 359
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-016-Q1-E1-H4

<400> 7356

gcgtccgccc acgagtcgcg ggacgcgtgg gcaagttcga attaacagtg gaatccgatc 60
ccaaaagatt tgaagatata ttccggacttc ggaaattaga gctgcgcaaa taagcatgga 120
agacttttgt gcagttttgct caaagaggct ggaatgggtg gcctataggt catgccggca 180
tcgccaaactg tgctccacaa gcatcgctcg cctccgtttc gtgatgggcg acaacaagtg 240
ttgcaactgc aagaacgtct gcccatcctc cttgtcacca gagccacggg taaatccact 300
agagtgatca cggattttctc cgtgtgaccc gctggggtaa atgagggcaa agctgggga 359

<210> 7357

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-016-Q1-E1-H5

<400> 7357

ggatggcagg cgaagaaggc gaacgcaatg aggttcacat aaactgtgaa accaaagaag 60
tttccattca tataaaatct gaagattgtg atgcagcaag ccattggcaa acagaccatg 120
aaacggtgag gctgggggtct tcccacaata catccgatgg cataactatg agcgaaaacc 180
aagacagcag taacataaaa tcatccaaca aaagggtcac aattcacaca tatcctcata 240
atgcagcagg ttcttttagta cagaacggga agcttatcaa cctgcctggt tctactggacg 300
agatcttcga aattggatgc cagaagtttc cgggtctccg ccctacaaaa ctggtcagtg 360
gagactatgc tgagatagat gacattagtg ttatacgtga tgggtgaac 408

<210> 7358

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-016-Q1-E1-H8

<400> 7358

cggacgcgtg ggggaagtcg ccggctcaga tccagccggg ctgcggcgct ggccggatgg 60
ccgagcaggg cggcgcagcc ggggaggccg ctggcagcga cccccctgcg cctgcgcctg 120
cgactgcccc ggcgcgagcc ccagcgcttg ctgcggacgc ggccgggagc aggtccctgc 180

cgacgccgtt cctgaccaag acgtaccagc tgggtggacga cccggcgggtg gacgacgtga 240
tctcgtggaa cgaggacggc tcgacgttcg tgggtgtggcg gccggcggag tttgcgcgcg 300
acctcctccc caagtatttc aagcacaata acttctccag ctttgtgcgg cagctcaaca 360
cctacggatt taggaagatg gtgcccgacc ggtgggagtt cgccaacgac t 411

<210> 7359
<211> 337
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-017-Q1-E1-A1
<400> 7359

agcatacaca acatcatcat catcatcttc tcgctagtcg agcgagccct tgtagttaat 60
taagctagtc gatcgatcca agagaagaag aagcagcaga caggaatggc gtcgctctcg 120
atgacgacga gcgcagcggc ccgcgcgcag tggacgccta ggcaaacaa gctgttcgag 180
caggcgcctgg cgggtgtacga caaggacacg cccgaccgct ggcaacaacat cgctgcgcc 240
gtcggcggcg ggaagtccgc ggacgacgtc aggcgctact acgagctgct ggaggaggac 300
gtcggccaca tcgagtcggg caaggtgccc ttccccg 337

<210> 7360
<211> 375
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-017-Q1-E1-A2
<400> 7360

acccacgcgt ccgcacccat tgggcatggt tgacagcatt gcatcacttg ctgttgctca 60
aaacatgcgt gagctttata gattggttct agtcgatata ccaactggccc cttacttctc 120
agagtgcatt acatctgagg atttgatga catgaatatt gagattatga ggaacactct 180
ctacaaagca tatcttgagg acttctacaa attttgccag aaactagggtg gtgcaacagc 240
tgagatcatg tgtgatctcc tttcatttga agctgacaga agagctgtta acattacaat 300
aaatagtatt ggtactgagt tgacaagaga tgaccgcagg aagctgtact ccaactttgg 360
tttattgtat ccata 375

<210> 7361
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-017-Q1-E1-A3

<400> 7361

acgtacgtat gacggtaaag acctttaccg acggaccacg aacgttggtg caagctgtgt 60
cggtaaaact ttaccgacc gaccgttggt ttaccgactt atcttctgtc gctaaaagaa 120
aagttttacc gacgcttcat catttggtta taatagtatt accgactctc taagagttgc 180
agctgccacg atgtaccgac ccatcttctg tcgctaaaag agacatttta tcaacgcttc 240
atcagttggt aataatagta ttaccgactc tctaagagtc actaattgtg tagattaccg 300
accaacaatt cggtgccgca gatattacca accaacaatc cattgcattc atacaaatag 360
ataat 365

<210> 7362
<211> 176
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-017-Q1-E1-A4

<400> 7362

gaactcccca acaatcctga actaactggg tctgcctcaa cggtgacatc aacaattata 60
atacaacaat tgttggaac aactgaaaaa tatggaatgg tcccttcgcc taacctgtgt 120
taaacaaaac tctgttaaga actgaatcct gaaactgggtg caacaacttt aaccct 176

<210> 7363
<211> 214
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-017-Q1-E1-A5

<400> 7363

ctgggctcga ttacgtttca tgctcccctt tcaaggttcc gattgctaag ctagctgcag 60
ctcagggtgct tgtctgaggc tgctcctcc ttggcaaccg gattgcctgc tgctgatgga 120

tgtggtgatc aacagtatta ttacaaagcc atgctatgtg aacattacta gtagcagtgc 180
tcataaaagc tacaatccca tctccctttt tttt 214

<210> 7364
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-017-Q1-E1-A6

<400> 7364

ggttctagtc gcttctcgtc gtttcgttcg taggtgcgcc ccctctcadc tgcactaaac 60
ctgagtcctg attaggggtc tacataatcg cttctctttg cctgattgat ttgataccct 120
acatccgtgg tcgccgggtg ttccggatta gccggatctg ttgggtctccg gttcgtgtgt 180
gctgtaccgg atttggggta tgttcgagtt gcttggtaga tttacgttgg tacatacgtt 240
tgcacagaag atctggattt actgagtagt aggctagtag ctgcctacgg cgtacacatg 300
acttgtgtat gaatcgtgta tctggcgtgt cgatgcttag tacgcgtagt gctgcaccat 360
actgaaactg aatggacatt ggctgtg 387

<210> 7365
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-017-Q1-E1-A8

<400> 7365

cggacgcgtg ggcgaccac tcgtcggact ggctgctaca tcttactgca gggaaatacg 60
gttgacgcca tgggcaacta taggggaagg ggactgaacc tagtgatgaa ggattgtaca 120
tgattgcatg aataatgtat agcatccagt gttacatadc aacgaactac tcatcatagc 180
tgatctacca caaaatcctg ctctagccta agaccattgg gacagatttc tcccgaagtt 240
cattgatgaa gaatgttcag catacaaagc ctcaatctac agagaagaaa tcgtacacac 300
cctttccaac gcctcaacag cctaacgata atgatcttga tcttgataac ggtga 355

<210> 7366
<211> 143

<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-017-Q1-E1-B1

<400> 7366

gcgtccaccc acaacgtccg tttttttttt tttttttttt tttttttttt ttttttttct 60
tttttttttt tttttttttt tttattattt ttttatcttt ggctgcatct caagacgaga 120
taacgggagg ccgccccaaa ggg 143

<210> 7367
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-016-Q1-E1-E6

<400> 7367

accacgcgtc cgcggaacgc tgggctcgtg attcgtgaac ggcggcgaca agaagccggg 60
agagatgccg ctggccacaa ctgctccgac gccggcgccg ccctgtcctc cgccgagtc 120
agcagcggca ccaatccgga cgcagctccg ctctcctcgc gcgaagctcg cgtcacggc 180
cgcgctcgtg tgcggctctg gcggtctcgc tgccatcgtc gtcgttccgg ccgccgtca 240
ggccgtcccg ttgcgtcgtc ctctcctcc tctcctgcaa ggaaggccct tcgcctcctc 300
cactccttac gcgcagtctc agaatctgca gcttggcctc gacaagctcg gaaagatcat 360
gccatgcccg . 370

<210> 7368
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-016-Q1-E1-E7

<400> 7368

accacgcgtc cgcaactagc aacatagaaa gcacaagagt gtaccaacaa tggcagccaa 60
aatattttgc ctcttatgc tccttggtct ttctgcaagt gctgctacgg cgaccatttt 120
cccacaatgc tcagaagctc ctatagcttc ccttcttccc ccgtacctct caccagcgg 180
gtcttcggta tgtgaaaacc caattcttca accctatagg atccaacagg caatcgcagc 240

tggcatctta cctttatcac ccttggtcct ccaacaatca tcagccctat tacagcagtt 300
 acctttggtg catttattgg cacaaaacat cagggcacia caactacaac aacttgtgct 360
 agcatacctt gctgcctact ctcagcaaca acagtttctt ccattcaacc aac 413

<210> 7369
 <211> 415
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-016-Q1-E1-E8
 <400> 7369

accacgcgtc cgcaaactcc ttgttgtatt gacaaaagcg ggcaaagtga tggctctgca 60
 cactggagat ggacgtgta tctggctgaa attgggtgcca tctcttcgtg cctccagatg 120
 tgggtggagtc ccttgtgcat taaggatata ccaatggcag gtcccgcata acagtgtcat 180
 gcgtgaaaat ccatctgtac ttgttgttg caaatttga gcagaacctt caattcctgg 240
 tgtattctct attcttgatt catattctgg agaagaactg aactctatga aacttgacca 300
 ttctgttgct caaattattc ccttgacact gaaggattca tcagagcaac aacttcattc 360
 gtttgttgat tccgattcca atgcacattt atatccgaaa tctccagatg ctctc 415

<210> 7370
 <211> 256
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-016-Q1-E1-F2
 <400> 7370

gcgtccgaca ctacaccaca ccacacacac ccgacgacta tgacacacat gtagaagatc 60
 tagttcgctc aatcgtgacc gtgacgcagg acgctatcaa ctatccatga catgaataat 120
 attggcggcc tctacggtgg caacgcgctc tgtcacggtg acgacagcta tcttcgctgc 180
 agctgtagcc acagacggca ccgacgtgct gatcatcgct cccaagacgg ctggcgccgg 240
 gcgcatcatc tgggtc 256

<210> 7371
 <211> 407

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB189-016-Q1-E1-F5

 <400> 7371
 attgaggaca agctgcaccc cgggtgggcc ttcgaccccc tgggcctggc cagcgacccc 60
 gaccaggccg ccatacctcaa ggtgaaggag atcaagaacg gccggctggc catgttctcc 120
 atgttcgcct tcgtcatcca ggcctacgtc accggcgaag gccccgtgga gaacctcgcc 180
 aagcacctca gcgacccctt cggcaacaac ctgtcaccg tcattctccg cgccgccgag 240
 aggacgccta gcctgtaagg acggacgcca cgccgccgag caatgccaag tcattcgctg 300
 ctgcatgccg tctttgattt taccgggata aaaagctgta tgtgagggtc tgaagaatgt 360
 gcaatgcccc gcgctgtaaa ttatcgagag ggggaacana ccttttc 407

<210> 7372
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-016-Q1-E1-F7

 <400> 7372
 ggacgactga accaccgaca gacaacatgg ccgcctccgc ctccaccgtc tccggcctcg 60
 ccggcgctc cctggccagc cgcccgcggt tctccaccag cttcacgcgg ggcagccggg 120
 tgtcggcgag gaacccctg atgagcagga acctggagag gaatggcagg atcacctgca 180
 tgacgtttcc ccgggactgg ctgcggaggg acctgagcgt catcggttc gggctcatcg 240
 gctggatggg gccgttcaac gtcccgcca tcaacgggaa cagcctcacg gggctcttct 300
 tccccagcat cgccaggag ctggccact tccccacgcc ccgcccgtc acctccagtc 360
 tctggctgtg gccagtgacg tggcacctgg gcctg 395

<210> 7373
 <211> 348
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-016-Q1-E1-G5

<400> 7373

aaacgacttg tttcattgat tcttgaagag atcgagcttc ttttgcacca caaggctcgag 60
gatgtcttgc aactgcggat caagctgcgg ctgcggctca agctgcaagt gcgggtaata 120
tatatgataa tatataagtg caccgtgcat gattaatttc tccagccttc ttcttgtcta 180
gttaatttcc atttatttat tttttccatt gcaaaacaaa caaacaacaa gacaagaaca 240
aagttaattt ggatcgagta gttcaatcca tttgcgcgct gtccttttca gcaagaagta 300
ccctgacctg gaggagacga gcaccgcgc gcaggccacc gtcgtcct 348

<210> 7374

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-016-Q1-E1-G6

<400> 7374

gacttgtttc attgattctt gaagatatcg agctgcgggtt ggcgccacaa ggtctaggat 60
gtcttgcaac tgcggatcaa gctgctgctg cggctcaagc tgcaagtgcg ggtaatatat 120
atgataatag tgcactggac cgtgcatgag gaatttctcc agccttcttc ttgtctagtt 180
aatttccatt tatttatttt ttccattgca aaacacacac acaaacagac aataacaaac 240
ttaatttga tcgaatagtt caatccattt gcgcgctgtc cttttcagca agaagtaccc 300
tgacctgtag gagacgagca ccgccgcgca ggccaccgtc gtcctcggtg tggc 354

<210> 7375

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-016-Q1-E1-G7

<400> 7375

atcctatgga aaaagaagag cagccaagta aaccgtggga atgttttttt tgttgttgtc 60
ttgtgttcga tggcaacacc caggctcgtga aggcaatcga gaacgcgatc cccgtgcggc 120
acgcgctgcc cgccgccgcc gccgcggaga tcgaccccg cgtgggaggag gagctgaggg 180
ccatggaggc ggagaaggcg gagatcgacc gggcgggccgc ggcgcggtg cggcgggagc 240

tgtggtgcgg gctgacgtac ctggtgatcc agacggccgg gttcatgcgg ctcaccttct 300
 gggagctgtc gtgggacgtg atggagccca tctgcttcta cgtcacgtcc atgtacttca 360
 tggccggcta ccccttcttc ctccgcacca agaaggagcc gtcg 404

<210> 7376
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-016-Q1-E1-G8

<400> 7376

accacgcgtc cgccacgcg tccgggccc tttcaatcgt ttccacctgg cgcctttggc 60
 cccggctgcg cgcgtttccc gctggccgct gctatccgat ttcttgattc ggtcgctctg 120

tctcgtcaag gcgtgcaccg ccttccatgt tgtttgttca aaatttctgc ttctgcaact 180
 ctctttgctt gttctgtgaa aacatagggt ccatttcaac ttccgtcgga caggacctgt 240
 attcgtcgag aaaaagtccc tttttcatag acgaactttg cagcactgtt tcttatatag 300
 agatttaagt cgatagatgg taaaaggcca tgggagacat acagtttact gggaaaacca 360
 gtttccattc agctgttttt ctctccctaa ttttgatttg 400

<210> 7377
 <211> 123
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-016-Q1-E1-C5

<400> 7377

aaccacgcgt ccgatgcaga cacggtgcaa caccacgcga tccctgcact tgtgtttgac 60
 atagcaaaag cccctactgt ttagtattaa ttatcaataa atttgtttgg gacggttgaa 120
 ttg 123

<210> 7378
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-016-Q1-E1-C6

<400> 7378

acccacgagt ccgaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaaa aaaaaaaaaa ataaaaaaaaa taaataaaaaa taaaaaaaaa aaaaaaaaaa 120
aataaaaaaa aaaaaaaaaa aacaaaaaaag gcgcggcccc tcaaaagttt ccaactttat 180
ttacccttta ttccaatttc aaactccttc aaaattttcc cttaaattca ttccatggcc 240
cttcttttta aaacttttta cttggaaaac ccctgccttt ccccttttta acccctttgc 300
aaaaaatccc cttttcccaa tctggctttt taccaaaaag ccctccccct tttccccttc 360
caaaaatttc cccaccttaa atgcaaattg gaaccccccc tt 402

<210> 7379

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-016-Q1-E1-C7

<400> 7379

accacgcgtc cgcaagcact tcgacgtcac acgggcgctg cgcacagaca caccaagcgt 60
cggcaccaat ggcttactac caggaggtgg actactgctc ggaggaggtg aggtcggtgg 120
ccccggccgg cttcggccgc cacggcggcg gcgtccagca gcacgtcgtc aaggagaagt 180
tcgaggaggt cgacacggtc tcacgcgccg gcgccaaacca ccaccaccac catggtcacc 240
acggcggcca cggcttcgtg gtgcgcgaga ccagggtcga agaggacatc aacacctgca 300
ccggcgaggt ccacgagcgc agggagagct tcctcgccag ggctaactga gccgcccggc 360
ggccggcatc cacgcccg 378

<210> 7380

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-016-Q1-E1-C8

<400> 7380

ggtgatagac attcctggaa caactggagc cagctttggt caggagctca tgttttacga 60
gaggccagag ccgaggtccg gcatacaccg catggtgttc gtgctgttcc ggcagctcgg 120

cagggggacg gtgtttgcac cagacatgcg gcacaacttc aactgcaaga gtttcgccccg 180
tcagtaccac ctggacgtcg tggctgccac gtatttcaac tgccaaaggg aggcaggatc 240
cgggggcaga aggttcaggc cggagagctc gtaaggaatg aagcatgcac agaagaagac 300
tgcagcgctt tcgtatgcat atgatctatc gtcgtcctgc ggaatatata tatagtaacc 360
gttggttatat ggaataatgt gcatgaaatt ggtatcagat gcaccgaccc gtacgtacgt 420

<210> 7381
<211> 396
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-016-Q1-E1-D5
<400> 7381

accacgcgtc cgctaactta cacaacacag ttcatgattc aggttcaatt aacgatgttg 60
atccactgaa acatgtgggt tttgataaca gcggatctca taagttcagt gtaagatgtg 120
aatcacagcc tcaggcttct gaaagttcca gggatgtttg taattcagat caaagatgtg 180
caaatgggtgg gagaaatcaa actacttcct gtgctagtac tcttatggta aataaacaaa 240
attgttactc agaaaatgat gaaggctcca ggcatgatgt agagctgatg acgaactctg 300
ctagttctga tagcacctcg tcatgcatga gccagggaga tagggaaagc agtccagca 360
gtacaacctc ttcgagcgct caaaatccgg aatcat 396

<210> 7382
<211> 314
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-016-Q1-E1-D6
<400> 7382

agaataatat ataaggaaaa aaaaaaaaaa aaaaaaaaaa aaagaaaaaa aaaaaaaaaat 60
aaatacaaaa aaaaaaaaaa atttatgata aaaaaaaaaa tacataagtt cactctacta 120
tgtgaatcac aactgacgc cttctgaaaa ttcccgatcat gtttgtagtt catatcagtg 180
acatcccaat gctggcacac atcatactac ttctgtact actattctta tcgtcattgc 240
actcaattgt tactcagata catgattaac gtcctatcca ttatctatag ctgatccacg 300

atttctgcaa actt

314

<210> 7383
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-016-Q1-E1-D7

<400> 7383

accacgcgtc cgccacgcg tccggctcgg tgtcacaaaa cctgaccgat ggcggcccgg 60
tgctccacag ctgcctccgt gtccgtgggc agaacaggat cgcgagacct ctccccctcc 120
ttttccttca cagccgcggc gctccccctg gcgcgtctga ggccggtagg agcgtggggtc 180
cgcggtggag ggtacacctg caggtccgc gccgtccgc ccatgggctc cgcgccgtcg 240
tcgtcccaat ccccgctcgt gcacacgct tcaggacaaa cccaagggaa agcagattat 300
aatcactga gtgaagagga gtggaagaag cgctgactg aagagcagta ttatgttact 360
cggcagaagg gcactgaaag agcactcact ggggaata 398

<210> 7384
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-016-Q1-E1-D8

<400> 7384

aatgagtttg cctctatccc gccacctca ccgtcgttgt ctccgccacc gccactgctc 60
ccaccactgc catgcattaa cctcaaccct tccgcaaact attcactgtc actttgtcat 120
cggcgctcca tcgttcactc aaatgtgggc tccgatacct ggcaccctca tgaggactag 180
ttcactccct gctgtcattg aggcttctgg caatgatgac tggaagaaac gaaaggaagc 240
acagagcctg aagaggctcg aggttaagaa gaagaggatt gagaggagga actctctcgc 300
ctgcaacact tcaaaagaag ctgctgggca gagtccaaaa gagatgaatg caaacactga 360
caaattagta agttctgatg aaactattgt cagcgctaac gaaagtcata gcagtggcaa 420
gcactcgttg 430

<210> 7385

<211> 386
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-016-Q1-E1-E1

 <400> 7385

 accacgcgtc cgagcctcta gtcggccagt cgggacgaag cctctcgaac gagcgaggcc 60
 acgaggtgcc cgccgcgccc agccggcctc gccgaccggg cccgccggcc cctatatagg 120
 caggcgccac ttcctccgcg caaccaccag acgccagtcc accaccgctt cccgtgcagc 180
 gccctccctc tacgttcccc catttctgt gttggcgcg atggcgcggc acttcgtgct 240
 caacaccggc gccaaagatcc cctccgtggg gtcgggcacc tggcagtctg accccggcgt 300
 cgttggcaac gctgtctacg ccgccgtcaa agcgggttac cgacatatcg attgtgccag 360
 agtttacggc aacgaaaaag agattg 386

<210> 7386
 <211> 417
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-016-Q1-E1-E2

 <400> 7386

 cgacgacgat ctccacgccg acagcgggca gcggtggctc gggcggtcca agcatcgtga 60
 cgtttttagt gcagcggaca cggttgcagt gtcacagcag tcgccggcaa gtggtcatcg 120
 tctggttgtc attcatgacg aaacgaccat catggctcca cctgttcagg tcgtggttgt 180
 gcaggtggag gacaagtgca gtgttggtcg tcacggggag acgagcggtt cttcttcttc 240
 ttctatttcg tcatcggcga gcgaggaaga ggacgtgtcc tttttggagt cgaaccgaga 300
 aatgctggaa gatgatgctg atcgtagtac gtcctctgat gggagctgga gagtggagaa 360
 agtgaagaga ctgatcaaca tggtcaccct ggtgtctctg ctcatcttt tgtacac 417

<210> 7387
 <211> 365
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-016-Q1-E1-E3

<400> 7387

aggacgcgtg ggctgagtta atgtcatccg cgcattggga gaagctagct gaggagctca 60
cccatcaatt ctgtagcctt ctgggccagt cgagggagag cccgctgagt gttgcagtgt 120
cagctggttt tcaaggacta ccaactctgc tgaagctgac gcaagtcatt gctgcgaaga 180
agcaggagtg gcaagttatg aagcagcttc ctgtcccat agacatcggg ccagaattcc 240
agtatcattc tgtctttgtg tgcccggtgc tcaaggagca gtccagtgc gagaatcccc 300
aatgcggatg ccttgtggac atgttgtctc caagcagtcc atcatgaagc tgtcgaaaag 360
cagct 365

<210> 7388

<211> 216

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-015-Q1-E1-H4

<400> 7388

tcggggtgaa ggacgttcgc ttccccggtt cgtcgtccgg gccacggttt aaccctcgc 60
ccttgaatc cttcggcgga acccctttct ccattcggcc ttcggcgcg cggggttttt 120
ccctttccga aaaggcaagc ttcaatcccg gccggggtgg ctcccccggc gattgggcgg 180
gaacgccggc caaccaaacc cttcttgccc ggccggc 216

<210> 7389

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-015-Q1-E1-H5

<400> 7389

cccacgcgtc cgcccacgcg tccgcgacg cgtgggaaaa aaaaaaaaa ataaaataaa 60
aaaagaaaag aataaagaaa ttggaaaaga aaagtaaaaa aagaaaaaga aaaatgtaaa 120
ataaagtaaa aatgaaataa aaaatttttt tcaaaaaaaaa aaaggggtgg ccgccccaaa 180
ggttcgaggt taacttaagc ggataggcaa tttcatactc cttcaaaggg gtccctaaat 240
ttaatttcag gggccttctt ttaaaaactt ctgaagggga aaaaccgggt ttttaccag 300

ttaaaccctt ttgaaaaaa tccccttttc ccaacggggg ttaaacccaa aaagg

355

<210> 7390

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-015-Q1-E1-H8

<400> 7390

agaggccaaa acccgcgac accggcgacg gcaggagaac ctcccgccgg ccgcccgcac 60

gccgcgcct ctacaggccc accgcctact catctcccac cgccgcctac ccaactccagc 120

tcgcccgcgg ttacccgcgg cctcttccgt ccaatccgct cccgccacaa ccttggcccc 180

gggccccgcc acatctcca tctctccat ccgcgagtcg ctctctcag gcgagaggac 240

cgccggcgac atcacctccg agtacctctc ccgcctccgc cgtaccgagc cgaccttgcg 300

cagcttcac cagtcgcgg acgcgcgcgc cg 332

<210> 7391

<211> 198

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-016-Q1-E1-A1

<400> 7391

aagagtctcg aatctgaaat cgatcgtgtt gtatatgttc cacgatcgca acgacgtaaa 60

atggttcaag gcaaagtatt atgcgtgcc ttgacatagc caatttaacc aatttcgaag 120

caacgacaat gttatTTTTTg cagcctaattg agcgggtggaa aaaacatggt cctcgtggcc 180

gcatcatgga aaacggttg 198

<210> 7392

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-016-Q1-E1-A2

<400> 7392

cacgcgtccg accacgcgtc cggtcacaac tgaagaagtg tctcaggtac ctgaagagca 60

gctaccaata gaggatctta gtgttcaaga tgacctgact tatgctgagt atcccataaa 120
gattcttgat aactgactc ctgtcacgag aaataagggt ataaagatgt gcaaagtgc 180
attgcgtcac tatggcgaag aagaagatac ttggaagaga gaagaagagc ttcgcataga 240
ctttcccat cttttcccta gatcttctta aatctcgagg acgagattat ttttaagggg 300
ggt 303

<210> 7393
<211> 415
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-016-Q1-E1-A3
<400> 7393

ggacgcgtcc gattaaaact ggtgttaagg attataaatt gacttactac accccggagt 60
acgaaaccaa ggatactgat atcttggcag cattccgagt aactcctcag ctcggggttc 120
cgcctgaaga agcaggagct gcagtagcgg cggaatcttc tactggtaca tggacaactg 180
tttgactga tggacttacc agtcttgatc gttacaaagg acgatgctat cacatcgagc 240
ccgttcctgg ggaccagat caatatatct gttatgtagc ttatccatta gacctatttg 300
aagagggttc tgttactaac atgtttactt ccattgtggg taacgtattt ggtttcaaag 360
ccttacgcgc tctacgtttg gaggatcaac gaattcccc tgcttattca aaaac 415

<210> 7394
<211> 304
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-016-Q1-E1-A5
<400> 7394

ccgaatcgag cgaggagta gagcaaattg aatcaggttt cgtgtcgatt cgagggttt 60
cgcttctgct tgcggagttg cgttgagat ttgaggcctg cggcgacgat ggcacctgcg 120
gaatccgggg agaatgcgac cagcttcgcc atggcctgca gcctgctcag ccgctacgtc 180
aggcagaacg gtgccgcggc tgccgatctc ggctcgcta tcagagctga atccgatgca 240
aagaggacgt cgacggacat ggaaaagggg gaaaccggga aggagaccat ggatctcttc 300

<210> 7395
 <211> 404
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB189-016-Q1-E1-A8

 <400> 7395

acaacttcag agtggcaggt ttgcagatgt cgaagaagtg gtatatctga aatggataaa 60
 tgccctgccta cggtatgagc tgagaaacaa ggatgccccca tcagggaaga ctgttgacag 120
 agatcttagc aagagcctga gcccgaagtc tgaattgaag gccaaacagc tgataatgga 180
 atatgccaat gtgggtgcgg aggacagtca cttggggcat gtcgaattcg gttcagagtg 240
 ctcttctca cgggcttcgt caggtgaacc ggatgatgtg tccattgaaa ntgcttcaat 300
 gacaaaacat actaataaaa aacccaaaaa gaaaaagttc ttctctaagc ttcggaaact 360
 ggtgctggga aaagggaaag agaancgtga aatttctact ctgg 404

<210> 7396
 <211> 374
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-016-Q1-E1-B5

 <400> 7396

accacgcgtc cgcgagcgcg tgggtggatg cagaaacaac ggtggtatgt tgctgacaac 60
 ggcattctact ccaagttaat atctgtgatg ggaaggaaag ggcagatacg gatggcaatg 120
 tggctgttct ctcatatgagc gaacagcggg tgcaagcctg acatttctgt atataactcc 180
 cttatcggcg cacatctgca ttcacgagac aagagtaagg ctttggccaa agctctcggc 240
 tattttgaga agatgaagtg tatagagaga tgccagccga ctattgtgac atacaacatt 300
 ctgctaaggg cttttgcaca ggctggtgac acaaagcagg tagacatgtt gttcaaggat 360
 ctggatgaaa gtgt 374

<210> 7397
 <211> 264

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-016-Q1-E1-B6
 <400> 7397
 ggcattcata tcctttcgca tcagtactgg gaggggcaca cgcaccgcac acatactact 60
 agtatgtagt ggagtgttg aaaggcataa gcgaattttc ttcttggttg gtctacgtcc 120
 atttgcttgt ccaggtaacc ggctagttta ctctgctttt tgggttttcc acgtctctct 180
 acaattgtga ctgttgacca cctataattg tgactgttga ccacctatag atgcgggttca 240
 gctagccctc cgacccccct ctcg 264

<210> 7398
 <211> 387
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-016-Q1-E1-B7
 <400> 7398
 atcgtctcca tgccgtgcaa gccgaggttc tacttcttgc cagtggtaag gacaatcttc 60
 taccaagcgg agaagaagcg gatcgactct tcaaggcact gaaaaactgc agagtctgat 120
 acttcaagga caatggccat acactactgc tggaggatgg cgtcaacctg ttaactgtca 180
 taaaaggagc gaacatgtat cggcgtggaa ggcaaaggga ttctgtaacc gattatctca 240
 cgcctactct aagtgaattc aggcaaacat ttgatgtgga tcacaggctg ttccaccttg 300
 cactgagccc agtcatgatg tccacctga aggatgggaa aatcgtcgcg gggcttgccg 360
 gtgtccctga caaaggcccg gtcttgt 387

<210> 7399
 <211> 376
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB189-015-Q1-E1-H3
 <400> 7399
 cccgggccc accaaccctt cagccaaccc gtccgacctc tgcggcaaac aattccggcg 60

ggccccggcg gcggcaacaa cggcggttct ccgccgttgc ccggcgctt ccttcccga 120
 caacaacggc acaacttccc ccccttcggc ttcccggtcc ggcccaacc ggccggccgg 180
 gtccccaaag ggcccttccc cctgggtccc gcgccgtct ccggtgccgg tccccccagg 240
 atccggggtc ctgacttcgg gggcttccc gtgccacggc tgccgctgct cgctgtgtct 300
 ctgtntcttg gggttttgca gtgactcgct ccgggttgct gccctgggtg actggatgta 360
 tatctaccg tagctg 376

<210> 7400
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-015-Q1-E1-E6

<400> 7400
 aggaacctca atccggaagc gaaaaggacc agaagaaacc agaggcgact ccagggtcgt 60
 gggcgatgct gcgcgcggga gctaggcagc tccttgcccc ggggctccgg cggctcggtc 120
 tgggcaccgg cgccgccggt cagggtgggc cggccgccgc ggccggcgagg atgagggcgt 180
 accacgagcg ggtggtggac cactacaaca acccgcgaa cgtcgggttc ttcgacaagg 240
 aggaccccaa cgtcgggtact gggctggtcg gcgcgccggc ctgcggcgac gtcataaagt 300
 tgcagatccg cgtcgacgag gactccggtg aaatcgtcga cgcctgcttc aagacctttg 360
 gctgccgctc cgccat 376

<210> 7401
 <211> 360
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-015-Q1-E1-E7

<400> 7401
 ataccccacc ttgcgtacgc gagccgaacg ctctgtgggtg ctgcagctc cgtccctacc 60
 tagggttccg gcgatggcgc acggcggcta cccgcgccgc ggcgctgccc tacgcaggcc 120
 caagtctcgc gcctctgccg ctgttgccga ccgcaagcgg aagcggaccg ccgccgccgc 180
 caagaccacc tcccttaaga accagatccg ctccaccgag cgcttctctc gcaaggacct 240

tccggatgag attagggttg ctcaagagaa gaaactggaa gaactgaaga ggcaacaaga 300
gcttcagaat caacttggtg tccagcggac attacagttt agagatagaa agataaaatt 360

<210> 7402
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-015-Q1-E1-E8

<400> 7402

agcgatctgc aagtctcgct acgtagcagt gcaataaaaa aagcagccgc aatggcgagc 60
agcaccatgg ccctctcctc cacggccttc gccggcaagg ccgtgaacgt gccgtcgtcg 120
tccgccttcg gcgaggcccg cgtgacgatg cgcaagacgg cggcgaaggc caagccagcg 180

gcggcgctcg ggagcccgtg gtacggcccc gaccgcgtgc tgtacctggg cccactgtcc 240
ggcgagccgc cgagctacct gacgggagcg ttcccgggcg actacggctg ggacaccgcg 300
gggctgtcgg cggacccgga gacgttcgcc aagaaccggg agctggaggt gatccactcc 360
cgctgggcca tgc 373

<210> 7403
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-015-Q1-E1-F1

<400> 7403

accagttacc actcaccagt caccagtctc cactctggag tctggaactc cctcatcct 60
ccacatctcc accgcatcgg aactaggaag gcgaagccga aggcgcggcg cggcgcggca 120
cggatcgagc gatggcgggtg gccctccta cggcggcggc gctggagcag ctaagcagca 180
gcaagatgtt cgacggcttc aatctccgct tccgccacca gagcgccacc cttggctgcg 240
ccatgacttt ctccatctac ctgccccgt ccccgcgctc caaccttccc gtgctgtact 300
ggctctcggg tctcacctgc accgacgaga atttcatcat aaagtccggc gccagcgcg 360
ccgcccgtgc cca 373

<210> 7404

<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-015-Q1-E1-F2

<400> 7404

acggacgcgt gggcgcgcta gctgaggacg gtacagcggc acagaggtgc gacgtacgac 60
gacgacgacg caggcgccac acatggcatc ccagctctcc gccgccgtgc cccggttcca 120
cggcctccgg ggctacgcg cgcccaggtc cgcggtggca gcgctgccgt ccgtgagggt 180
gggcaggaag aggtcgtcgt cgcagggcat ccgctgcgac tacatcgggt ccgccaccaa 240
cctgatcatg gtgacgacga cgacgtgat gctgttcgcg gggcggttcg ggctggcgcc 300
gtccgcgaac cgcaaggcga cggcggggct gaagctggag gcgcgcgact cgggcctgca 360
gacgggtgac cccgcccggg tcaacctcgc caaaagcct ggctgcggg cgccttcggc 420
cacatcctcg gcgtcggcat cgtgct 446

<210> 7405
<211> 389
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-015-Q1-E1-F3

<400> 7405

cgttctagat atccgggtcg accagcgtca gccgcaacag ccaacttaag tgggcatttg 60
tgaaaacgtg aaaccttctc tgtggcctct tcgcgaaagc tgggctggat tacttntctt 120
gctccccctt cagggttcga ttgctaggct anctgcagct caagtgcctg tctgaggctg 180
cctctcatt ggcaaccgga ttgcctgctg ctggtggatg tggatgatcaa cagtattatt 240
acagagccat gctatgtgaa cattactagt agcagtgctc ataaaagcta caatcccatg 300
tccttttttt tccccagtca tgtaaaactt ccaaactgct ccattgggttca aaactctgtt 360
cttcaatata tcatcaatta tcgattaata 389

<210> 7406
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-015-Q1-E1-F4

<400> 7406

cccacgcgtc cgcagcagct ccgctcgtcg atcagctctc ggctgaccac tcaccgccag 60
tgggtgcctg ccgaccaggt ctcgccaccg ccgccgccgc cgcggtagag aggggagggg 120
gaggagagg gagaaaaaac tggcccagat cgagaggtac agcacgaata agagaggcaa 180
gagagatagg ggaccggagg gcggcgggcc ggggcccaag accgaggggc tcgtgcgcag 240
gaagctgatg aggctcctgt cgctcgctccc cttegggtgc cgtgctggac ccatcgacga 300
cgcgccgccg cccgtggacc acgctgccgc cgccgccgcg aggaggcgcc ggaggaagat 360
ggccaacaga gccgccaac 380

<210> 7407

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-015-Q1-E1-F6

<400> 7407

agcctgacag agtgctcatc ggtggccggg agacccccga gggcaggaaa gccgtccagg 60
ttctcaagga tgtgtatgct cactgggttc ccgaggacag gatcctcacc accaacctgt 120
ggtccgctga gctctccaag ctgcgccca atgcgttctt ggcacagagg atctcctctg 180
tcaatgccat ctccgctctc tgcgaggcaa ccggagccaa tgtctctgag gtggcttacg 240
ccgtgggcaa ggacacgaga attggcccca agttcctgaa cgccagtgtt gggttcgggtg 300
gctcatgctt ccagaaggac atcctgaacc tgggtgtacat ctgcgagtgc aacggcctgc 360
ccgaggtggc caactact 378

<210> 7408

<211> 231

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-015-Q1-E1-F7

<400> 7408

gtggatggat accctgtgta tagcatggca acgcccacta ttgatggagc gagtgatgtt 60

ttgtcgtatc tgggctctaa agacacaacc ggaagaaaca ttgcacagaa ggtggtcgtc 120
acagatctta gagaagaaat ggttggtttac atcaagggat tcccaattgt tttgagagaa 180
ctagatcaac ctggtgatac tttgaagcat gttggcatta ttggtccaat g 231

<210> 7409
<211> 243
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-015-Q1-E1-F8
<400> 7409

atttgtccgt tcattgaacg gacaaatcga ctgcttggca tgtagtgatt tccttatggt 60
ctcttgatag ccacttggaa attaaaatac ggtctttata tagccacgct ggagatcaca 120
accggtcatt gcacgacgat gctcggcaac ataacggttc atcgcaggtc gatccgctgg 180
caattgatga ttagtcgcaa ttccgtcagc tacagcctcc atcaacatcg tagtcactgc 240
tgt 243

<210> 7410
<211> 367
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-015-Q1-E1-G1
<400> 7410

accacgcgt ccgccacgc gtccgatgac accaacattt ggcacattcc tttgttgctc 60
agagatcaga aggcccatga agctattttg aagggtgtag accttcagtg cgcgaataaa 120
gttgctcgag aaccccaatt gtctgaatgg actgaaagag tcagcagatg tgacagattg 180
aaatctccgg ttaggattgc aatggttga aagtatactg gcctgtcaga ctctaccta 240
tctgttataa aggctctttt gcatgcgtcc gttgctttgg acaggaaact tgtggtggac 300
tgggttcctt cccgtgatct tgaagattct acagcaaaag agactcctga cgcctatgaa 360
aaggcat 367

<210> 7411
<211> 339

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-015-Q1-E1-G3
 <400> 7411
 acccacgcgt ccgcggacgc gtgggaggac gcgtgggggt gtaccccgaa tgccacgggg 60
 aggagttcgt ggagatcggc gcgggagacc ttgtcgtctt cccaagggc atgagctgca 120
 cctgggacgt cgccgaagcc gtcgacaagc actacaactt cgagtagccg ccgccgccga 180
 ctagccctgc ggcgctcgat gtagacttgc tgtgtctttg tactctgaac ctatgatgct 240
 ccaactccaga gttaacatac cgtgtaataa agctcccgat tacgggacta caatgctgta 300
 ctatctgttt cagattccgt tccgttagct gtgataaga 339

<210> 7412
 <211> 370
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-015-Q1-E1-G4
 <400> 7412
 aggccacaaa gcttgctacc ttttaciaag ttgtaccatc ataataaaa gggggaacac 60
 attgggtggg ttcagtttcc gaaaaaaaaat cccaagcca agccacaagt ttttgattcc 120
 aagttaaaaa gaagaagaaa ggtacctttg gatttgacca accaagtcaa gcatataata 180
 caaactgaac ttgttctatg gaactctgaa taaaaatcca agtctctact aacaagatct 240
 gtaaagctta tgaattaaga aacatgaaaa ggcctctagc tgagttgggt aggtagtttg 300
 aatagcactt cccaagtccc ccatgtgagc gaattttagg ttgggggtta aaaatcccct 360
 tgtctgtccc 370

<210> 7413
 <211> 222
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-015-Q1-E1-G6
 <400> 7413
 agatcgcta tcgacttcac gtctctccgc cagaccacca ctaccccgtc tatctctggt 60

ctgggtcccaa gtcccaatta gtcggagcct cctgccctcc tcgaccgctc aagccaagaa 120
ccagaagcca tggagacggc ggcgcggcg ccggcgccgt gggcggaat ggagatggac 180
tgcattgtgc aagtgttcgt ggcctcgac ctgaggacc tg 222

<210> 7414
<211> 376
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-015-Q1-E1-G7
<400> 7414

cggacgcgtg ggcggacgcg tgggtccaac tccaagccc agccgcctgc ctagggttaa 60
ggtcgcccct ccgcccctc gctccgctcg tgaccggcag ggttcgtcgc cgcggttga 120
tatgtcgcgg acgctggtgc agcgggtggg gcagaagcgc ctcaccaacg tggccgtggt 180
gcggctgcgc aagcacggcc agcgcttcga gatcgctgc ttcccaaaaa aaggtgctct 240
cgtggcgctc ccgctcgag aaagacatcg acgaggtgct ccagtccac accgtctact 300
ccaacgtctc caaaggcatc ctgcceaact ccaaggaact cgccaatgcc ttcgggcacg 360
acgaccttac ccaaat 376

<210> 7415
<211> 367
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB189-015-Q1-E1-H2
<400> 7415

cacccatcag acgaatttta agaaaaagaa ttttacattg aggacatntt atagaaaaag 60
ggtccaaatt ttttaatact gtgaaggaat atataataaa tatttataag aactaattta 120
ataagtaact tttgtatcac ggttaaataa ttttcctta attaaaaatt aatttccca 180
aatgaaaaga tttaaaaata aaatttttaa ttttaagtcca aaaaatatat aataaaaaata 240
aaattggtaa aagccaatca attttcctaa aaccgggttt ttaaaaaatt aaattaaatt 300
aaaaataaaa atttaattaa ttaaatttaa tactaatatt tattttaatt aaattacctg 360

aaggata

367

<210> 7416
<211> 301
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-015-Q1-E1-E5

<400> 7416

agcggacgcg tgggcgcctc cgcgccccct caccggtgca gcgcgaggaa gcgggggggcc 60
agaggccagc catgggcaag gaagggggcca gcgacagcgg catgtcggag tcggtgattc 120
gcaaggtcct ggtctcgtac atgtacgtgg cgggtgtggat ctctctctcc ttctccgtga 180
tcgtctacaa caagtacatc ctcgacccca agatgtacaa ctggcccttc cccatctccc 240
tcaccatggt gcacatggcc ttctgtctct ccctcgccgt ggcgtctgtc cgcgttctcc 300
g 301

<210> 7417
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-015-Q1-E1-C1

<400> 7417

tcatcacgcc gccactgata tgctctgttg ctggtgacta ggagcagtag cgagagggat 60
tctggatggc caagtcgaag aaccacacgg cgcataacca gtcgttcaag gcgcacaaga 120
acggcatcaa gaagcccaag cgccaccgcc agacctccac caaggggatg gacccgaagt 180
ttctgaggaa cttgaggtac tcaaggaagg gcaacaagaa gaggggcgag gctgagtccg 240
aggagtaaga tgatgggtgat tgagtttgtg gcgacaaatg catctcttgt atcgctaaga 300
gtcttagctg tgaacttagt tctcatttct gtgtgactgt gatcaaagga cttgtgtatg 360
atcaaa 366

<210> 7418
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-015-Q1-E1-C2

<400> 7418

accacgcgt ccgagcgagc agtcgcgagt acgctcccca aaaacctgat cgctgcatg 60
taaagcccta aaatatgtat aagaaaaaat gataaaataa ataaatagaa tatataaaag 120
tgttttggga tcatggaacc cttagagatt atctagtttt tttttctcta tgtgcatatt 180
taactaaatg aaaatctagt aaaactctct acaagctcta aattggagta cccttcaata 240
ataattttct tacatttgaa agtattttaa attttaaaaa aaaataaatc ttaaaatcat 300
caaataaata atatgaatgt aaattatttg tttgagggag ttatccattt atgaattatg 360
catg 364

<210> 7419

<211> 393

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB189-015-Q1-E1-C6

<400> 7419

cccacgcgtc cggggctcgc aggaggatgc tgcttcaacc aagtacttg ttgatattcct 60
ccttagtgag tgggaggaca ggatgactcg aggcttattc cgctacgatg tcaactgcctg 120
tgagaccaag gtcattcctg gcaaccttgg gtttggtgca caactcaatg aaggcgcca 180
ccttaagaag cgccctactg agtttcgtgt ggaccgtgtg ctccagccgt ttgaccctgc 240
caagttcaat ttcacaaaag ttggccagga agaggttctc ttccaatttg agaatagtgg 300
tggtgatgac agctatttcc tgaacaacgc tccaatcatt gctgttgatc gggctccaaa 360
tgttantgct atcaatgtaa gcccaattga ata 393

<210> 7420

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-015-Q1-E1-C7

<400> 7420

agcggacgcg tggggtcaca gtgggttctt gtttcacacc ttaagcatgt acagcaagga 60

gtgccatcca accataagag acgaagttag caagcacttt gcaaactgcg agctacggtc 120
gatggtgttg gttgacagaa gcatgcttgg gtcattatcg tcaagattca actatgctgg 180
caagaatcca accgggctag atgtgcctag tgatattgca gataagaagc aggttgatga 240
agctcagaag aactgaggca accttgaaag cataccgtag atgacttgga ttatcaaaaa 300
gccactctga cctttgcgaa gcttgcttgc ttgctttgaa gagggcatct actacagata 360
gagtttacac ataccattgc g 381

<210> 7421
<211> 173
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-015-Q1-E1-C8

<400> 7421

agcacggatc gtacttgacg aggaaggagg gaggagcagt gtggcttgag ctctccagtg 60
ttgtacaaag acatgtttct ttctgaaccc aaaagggaga aagatgtatg aagcgtgtat 120
ataagatctt agctagcagt ttgttttcat ttgtatgagc gatcgaaggc tgt 173

<210> 7422
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-015-Q1-E1-D1

<400> 7422

cccacgcgtc cgcccacgcg tccgcaataa tgattgtaga tagatatgtt attattgcat 60
tgcagttcat ctatatgat cactccagtg cttttgttct attgtatgct tgcagccttg 120
cacttcaatt tttgcagtcc aaagttctat tctttacttg gatataattac tctcttaaaa 180
catcaattca ttgttttgca ttcctttgtt tatttgtaga tatgaacaag tcctttgttc 240
tttaatgggt ttgattttgc tggcttgaac tctttagggt tttgaactaa tgataacatg 300
tgtagacctg aaaattcgta gactattgta ctgaaccttc tgatgtttgt tcctttcttc 360
atgtttagg ttgctgataa tttt 384

<210> 7423
 <211> 377
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB189-015-Q1-E1-D4

<400> 7423
 ctctccatgg gcgaagacga gaccccgag gtccagcctc cgccgccgcc tacccaaggg 60
 cgcttcgaaa tcgttatcaa caacgacaac atccgaacgc tcgacctatc gccagtcgaa 120
 gcagcactcg gcgacttgag ctccttgaca ccagctgctt caagaaccct gctggaccag 180
 accgtcgggt tcaccatcag ctacgagagg gaggacgagt acgacacgcg ggagctgtcg 240
 gagttccccg acatacggct gtgggttcgtg aggctcgacg ccgcgtaccc ttgggtccccg 300
 gtcgtgctcg actggagagc cggcgagctt gccagatacg ccgcgatgct cgtcnctcac 360
 cagatgagca tgccgat 377

<210> 7424
 <211> 272
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-015-Q1-E1-D5

<400> 7424
 cttccagtca taatttttga gccaatgaca atgcttcaga aaatggctga gttgatggaa 60
 tactgtgagt tgtagacaa agcagatgaa tgtgaggatc catacatgcg tatggtttat 120
 gcttctacat gggctgtttc ggtatacttc gcgtatcagc gcacatggaa gccttttaat 180
 ccgatccttg gagagactta tgagatgggt aaccaccagg gcattacatt tcttgccgag 240
 caggtaagcc atcatcccc aatgggtgct gc 272

<210> 7425
 <211> 360
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-015-Q1-E1-D6
 <400> 7425

agcccacgcg tccgcgaagc atggcggtccg tcaccgcccg cgccccggtc gcggcccttc 60
 gcccgctgctc ggccttcctt ggccactcta gccgcctcgg ccgcacgcg tgcgccacga 120
 ggcgacgcct caaggcggag gccaagggcg agtgggtccc cggccttccc tccccctcct 180
 acctcgacgg cagcctggcg ggtgacaatg gcttcgaccc gttgggcctg gcggaggacc 240
 ccgagaacct gcggtgggtc gtgcaggcgg agctggtgaa cggccggtgg gccatgcttg 300
 gcgtggccgg gatgctcatc ccggagggtc tgaccaaagc cgggctgatc aacgcgccgc 360

<210> 7426
 <211> 368
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-015-Q1-E1-D7

<400> 7426
 gcagcagagg cagcgacacg atcgcgagcg cagcacgta agcacgttgt cggaagctca 60
 agttagaaga agcaccagtg actgatcgat ggcgggccag gctctcctct ccggccggca 120
 gctgctgggc cgccccgtgc agtcggccgt ctctaggtcg tcggcgagga aggcgcctt 180
 cgtcgtcagg gccagctcca gccctccagc caagcaaggt gccgacaggc agctgtgggt 240
 cgcgtccaag cagtcctctt cctacctga tggcacgctg cccggcgact atggcttcca 300
 cccgctgggc ctctcggacc cggagggcac cgggggcttc atcgagccca agtggctggc 360
 ctacggcg 368

<210> 7427
 <211> 385
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-015-Q1-E1-D8

<400> 7427
 cccacgcgtc cgtgaaaact attatttctc gtcacctcct gtcgtagtaa gtgtttcccg 60
 tcacctctct gtcgtaggaa gaatttactg ccctattact catcttatta actctaacia 120
 aaaatctcac tttaagatag gtacatattt caatcttaat tctagattta tgtttcgttc 180
 tgtacatagt ggttccattt tttctccctt tgetctcgtc atatgaatat ttttactcca 240

ttggttgttt tatttacttt aaaagcgtgc cataaaatat gtgtgtttca ctattaaaaa 300
 atatatccct tcacttatgt attagtgtta gaattacaat tattttttct tttcccaaaa 360
 gtttagaaat gttttaagcg aacta 385

<210> 7428

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-015-Q1-E1-E3

<400> 7428

ggtccagaaa tccgggccga ccacgcgtca gagagcgtgt gttcgtttcg aggacgcaca 60

cacagacgcc atggagggtta cacaaaacca caccctgacc gtgaccgggtt gggcgggccat 120

gaacgagtcc gcccgcaagg tggagccctt cgtcttcaag agaagggaga acggccctga 180

cgacgtgacg atcaagggtgc agtactgagg catgtgccac acggacctgc acttcatcaa 240

caacgactgg ggcataacca cgtacccgct ggtcccgagg cacgagatca cggcggtggt 300

caccaaggcc gggcgcaacg tgacggggtt ccgcgtcggc gaccgcgtcg gcgtgggctg 360

catcgccgcc tcttgcttgg actgcgaccg ctgccgccg 399

<210> 7429

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-015-Q1-E1-E4

<400> 7429

cccacgcgtc cgggtcactg tgtgacctgt acgagaccct tgccatcacc cagagtgtca 60

tctttgtcaa caccgcgcgc aagggtgact ggctcactga caagatgagg agcagggacc 120

acactgtttc tgccactcat ggtgacatgg accagaacac tagagacatc atcatgaggg 180

agttccggtc tggctcctcc cgtgtgtcga tcaccaccga cctgcttgct cgtgggtattg 240

atgttcagca ggtgtccctg gtcataact atgatctccc caccagcca gagaattacc 300

tgcacgcacg tggtcgtagt ggtcgtttcg gtaggaaggg tgttgccatc aactttgtga 360

cccgcgacga cgagcggtatg ctg 383

<210> 7430
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-015-Q1-E1-B8

<400> 7430

aggagaaacc cctaggttcc gacggtgaag aaccgaagcc tgtgtgacga ttattaagtg 60
 ttccgcagaa ggaccgaacc caaaaccttc gctgtgttcg tagacgtcgc ttcgagttaa 120
 gtcattggtc gtaattgat catgtgatgc ggacgacaag agccgagttg atcccaaat 180
 gatgctggtg aacgaacctg aagcttggat gatctggtca agtaccagga tgagagatgc 240
 tccccagag gacgtcatct aacaacactg acttatgtta tcccaggta taattttgtt 300

ctgttgtgga tgggtgctaag tgccggtggg ctccgccttc ttataaaagt atatcccatc 360
 tttagcttct ttattgagga ctgtcact 388

<210> 7431
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-H5

<400> 7431

cccacgcgtc cgcagcaggc cattcttctc gccttactcc ctacacagaac ccagtaaaat 60
 attgctagtc ccgcgctega gatggcccca cgccgcctgc tcgtcctcgc cgtcgtcgc 120
 ctccgcgcca ccgcgcgcgc ggccaactcc ggcttcgcgcg actccaaccc gatccgcccc 180
 gtcaccgacc gcgcggcctc cgcgctcgag tccacggtct tcgcgcgct cggccgcacc 240
 cgcgacgcgc tccgcttcgc acgctttgct gtgaggtacg gcaagagcta cgagagcgcg 300
 gcggaggtcc acaagcggtt taggatcttc tccgagagtc tccagctcgt ccgctccacc 360
 aatcggaag gcctctccta ccgcctcggc atcaaccgct tcgcggacat g 411

<210> 7432
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-H6

<400> 7432

accacgcgt ccggcacacc tgggtggtgag cttcagtttc aaacagaggt tgagatgatt 60
agcatggcag tgcacaggaa ctttctccga cttcgtggtt tctgcatgac acctactgaa 120
cggttgctgg tctaccata catggctaataa ggcagtgtgg catcacgttt acgagagcgc 180
caggcatctg aaccacctct taaatgggaa acaagaagac ggattgcact gggatctgca 240
agaggtcttt cttacttgca tgatcactgc gatcctaaga tcatccatcg ggatgtcaaa 300
gctgcaaata ttcttttggga tgaggagttt gaggcagtcg taggtgattt cgggcttgcc 360
aagcttatgg actac 375

<210> 7433

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-H7

<400> 7433

accacgcgt ccgaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaaa aaaaaaaaaa aaaaaataaa aaaaaaaaaa aaaaaataaa aaaaaataaa 120
aaaaaaaaaa aaaagaaaaa gggtaaaaaa atttaatttt ttaggtaggt gggtttacia 180
aatagttttt ggttttattt tggttttaat taaattttta atccttttga ttgtacttcg 240
gatttgctag taagtggtaa ttatttttaa aaatttttgcg tattgggaat taatcattt 299

<210> 7434

<211> 377

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB189-014-Q1-E1-H8

<400> 7434

cgtccacaca cagcaccxaa atcttttctt ctccacaggc gactcccaac gcaacagcag 60
ctcgtcgagc gagtcgtcgc cggccggccg gtatatacgc aagaaagcca agaaaaaacac 120
ttctgcctct tctccatat ccaagaacca aaggtagcta gctagccgcg actcgttggc 180

tagacgattc aagcagcagc gcaagatggt ggcgccggtg gtgattgcgt cggccgggct 240
 gggcatgctg gccggcggtg cgatggccaa cgggtccctc gggaacgggc tcccggcggc 300
 ctccaagtgg gacgcgcgcc cgcgctgcgc cacgtgcggc ggctccggcc gcgtggagt 360
 catctgcana cgctggt 377

<210> 7435
 <211> 370
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-014-Q1-E1-H9
 <400> 7435

gtgatcacca acagctagtg ctagtccccc ttccttccat ccatccatgg catgcgtcag 60
 caccttccag agctgcccc a ttgccagaag agcaaagatc aacacgaggt ccaggggctg 120
 cagcagtagc gtggcggaagg ggtcaccacc accagccttc cagttccagt gcagggcgctc 180
 gactttcgcg gcggacacca gctccgggt cgagctggac gagaaccccg aggcgatcat 240
 ctcgggggcg tggcccggga actgctccct cctcagctac gacgacctcc ggcctacct 300
 cgagtcgcag gagacggcgg cccaggcaga cggtcagcag cgcggcggtg cgctcctgag 360
 cgagaccatg 370

<210> 7436
 <211> 402
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-015-Q1-E1-B1
 <400> 7436

gacccacgcg tcagcccacg cgtccgcgga cgcgtggggg gctggctatg gaggcgttcg 60
 cggaggcagc cgggccggag tgcacgtgc ccggacagca agcgctcta aggcttatgg 120
 ggctcaaggc ctggcccgtt tgatatagat atgaagttcc tagagccatt tggacgggaa 180
 ctacattcaa tgaaaaaatt catggacaaa tcgtgcagtg ttatggactc atctatggca 240
 aacaagtagg cacatggcac atcagttccg cccaatacag ctgttggtgt atccacctgc 300
 ttctgaagt tacaagacct gaaaaataga agagacattt ggagagaagc cacattcttt 360

tgcgtatctt gtcaccgtc acctgacgaa caaaatatga ca

402

<210> 7437
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-015-Q1-E1-B2

<400> 7437

gtcagtcagc ttcagcacca cgagcacgat ggccctcgcg ctgccacga cccactcgc 60
gcattctgcc cttgccccgc cctcgatctt cggctcccaa tctcgctgc tgetgctccc 120
ggcgcgcgcg tcgcccgcc cgtctccct ctctcacgc cgcattcatg cggccgtcgc 180
gaccaaggaa cccgagctcg gcggccgcgg atcgggggcc ggcgacggtg cggaggag 240
cggcgggcgc agcgaccga ggggaggagg gcaggaagga gacggggagg aagagaagat 300
ggggcagggc ctgtccatgt cgcagaaact caccctcgcc tacgccgcgc tcgtcggagc 360
tggtggtgta atgggatata tgaag 385

<210> 7438
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-015-Q1-E1-B3

<400> 7438

cccgggccga accaagcctt caggtaattt ggaataaggc agataaattt ggcagcaggc 60
caaataaggg gtctttgcaa tttcaacaaa accaaattcc caaaattggt tccaaaacca 120
ggaggctcta aaccaaccct aaaaatgcca tggaactaaa ccttacctgg gaaaaagctc 180
aaaatttggt gccccctgct cccactgcaa aaccaactgt tgtgatgatt gaggactatg 240
aatttgaaga atatgatgaa cccctgtct ttgcaaagag atcaattttt accatccgtg 300
caacaaggga acaagaccag tggattcaat gtgacgagtg ctcaaatgg cgccggttgc 360
ctcttaatgt tattgttgca accaaatgga catgcaacga caactcatgg gacaaaaat 420
cctgtcctg ctctgccct gaaaatttaa ccc 453

<210> 7439
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-015-Q1-E1-B5

<400> 7439

agcaatccac acaagcactt cgacgtcaca cgggcgctgc gcacagacac accaagcgtc 60
 ggcaccaatg gcttactacc aggaggtgga ctactgctcg gaggaggtga ggtcgggtggc 120
 cccggccggc ttcggccgcc acggcggcgg cgtccagcag cagtcgtca aggagaagtt 180
 cgaggaggtc gacacgttct cacgcgccgg cgccaaccac caccaccacc atggtcacca 240
 cggcggccac ggcttcgtgg tgcgcgagac cagggtcgaa gaggacatca acacctgcac 300
 cggcgaggtc cagcagcgca gggagagctt cctcgccagg gctaactgag ccgcccggcg 360
 gccggcat 368

<210> 7440
 <211> 359
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-015-Q1-E1-B6

<400> 7440

aggaggtggg ttggcttctc ctccccctcc ggttcgggtt cgggttcgtg aggttctccg 60
 gggttcgggt tctgtgggtga gcggatcgag atggcggcgt cggatgttga gtaccgctgc 120
 ttcgtcggcg gcctcgctg ggccacggac gaccactccc tccacaacgc cttcagcacc 180
 tacggcgagg tcttcgagtc caagatcatc ctcgatcggg agacgcagag gtcccgcggc 240
 ttcggcttcg tcaccttctc cacggaggag gcgatgcgga acgccatcga gggcatgaac 300
 ggcaaggagc tggacggccg caacatcacc gtcaacgagg cccagtcgcg cggcggccg 359

<210> 7441
 <211> 385
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-H4

<400> 7441

ccctcgagga gcttacactg gattttaatc agctcaaagc cctcccaaaa cccattggga 60
 atttgaaaa cctgaaaatc ctgactttac actacaacag aatcaaaggc ctgcctacaa 120
 caattggcca tcttaccagg ttgaggagc tggatgtcag tttcaacgaa gttgagacta 180
 tacctgagaa catttgcttt gcagccagcc ttgtgaagtt gaatgtcagc aggaactttg 240
 ccgacttaag agccctgcca aatcaatag gggaacttga gatgctagag gagctggaca 300
 tcagtagcaa ccagatacga gtgcttcag actcttttg gcactctca aagctacgtg 360
 tgtttcatgc tgatgaaact ccact 385

<210> 7442
 <211> 364
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-015-Q1-E1-B7

<400> 7442

agctgctctg ctctcgcaac gcaagcacac gcccgccgc ctgccacagt tgccatggcg 60
 accatagcca cgatggcgct gctgaagccc gccgccaagg ccgcgccgcg gtcggcgccg 120
 tccaccagca gcggcagcgt ctcgctgcgc gtccggacgg ggaggccgc caagaaggct 180
 gcgctgtccg tgtccgcgtc gtccacgctg gcgggcgcct tctcgcggc gctggcgctg 240
 tcgcccagc ctgcgctggc ggacgtggcg gcggcgacg ccggcggtga cagccatggt 300
 cagctgctgc tcgtcatggt ggagcacgcc atctggtgag tgctattcaa catgctgcag 360
 tcgg 364

<210> 7443
 <211> 356
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-F9

<400> 7443

accacgcgtc cggatctata ttcacttaac cttagcaaac ttgatgagtg gaagtgtatc 60
 atatcggcct cagaatctga atggttagaa atttctgagg aagaggatga tgatgatgat 120
 gatgatgaga ctgatgatga tgaaaatgaa gagggggatg ctagccagac agatgaagat 180

gaagaagagt ctgatgaaga tgctgcaaag aacgtgtcca gtgctgtgtc tctgctgaag 240
 ggtgaaagta agaccatgcg tataaaagag aagcgtgttc ggatagaaca gatcagggtc 300
 atccttggcc tttctgattc tcaaagtact ccattgcctg gagaatcact gagaga 356

<210> 7444
 <211> 402
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-014-Q1-E1-G1
 <400> 7444

caacggcttt ggccgggtccc tgggaatcca gaaaaagggc ccaacaacct taaccttgaa 60
 caataatttt gctgcaagga cgaaaccatc cggcgagttt gtgagcaagt ataagggtaa 120
 ctacacattt accggtggga aggcagttgg gtacaggaat ctctttggaa tcccgtggca 180
 ggcgttcatt gccgatgaca gcctcttctt catcgacggg atgctgcatt tgagagctga 240
 gcttacgata aagcaacctc cgtagatgtg ctgccgtcgg gttaagtgtg tccagtcatt 300
 ggtgatgtgg aaaatgctgt gtgctgcaga tacccttttt gttttttttc cttttgttca 360
 cgcaccttaa tccttacatt aatagacagt ttggtgaatg ac 402

<210> 7445
 <211> 435
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-014-Q1-E1-G10
 <400> 7445

agcggctgtt ccacgtcgaa agcctcgaga agaccgcca ggatgacttt cagaagctcg 60
 cctctgccgt gtaccttcaa gtcagcacga tcagtcaggc cttatcttc gtgacgcggt 120
 cgcgcagctg gtcgtttgtg gagcgtcctg ggttcttctt ggtctttgct ttcttggtgg 180
 ctcagctgat cgccactctg atcgtgttat atgccaactg ggcgttcgct gcgatcaagg 240
 gcattggatg gggctgggcc ggtgtcatct ggctctacaa catcgtcttc tacttcccgc 300
 tggacatcat caagttcctc atccgctatg cgctgagtgg gagggcatgg aacctcgtcc 360
 ttgagcagag gatcgcgttc acgagcaaga agaatttcgg cacggaagaa agggagcgca 420

agtgggcgca tgccc

435

<210> 7446

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-G11

<400> 7446

aacacgcgtc cgaaaaaaca cccgggaaat ccaagcagct gttgcaaccg gttccttcga 60

ggagaacgtg agaaagaagc atgaggcccc aggtgctgct cgtcgcactg gccgtcttcg 120

ccgtcctcgt agctctgcca ctgggcaaag gtgaggcttg gacctttcgt ttaatttctc 180

catcgccaga accacttgaa acgacggggg tcggtcggtt cggcggcctg gtcttttggt 240

accgcagcgc acgaggagga ggatgaggaa gggcttgaac tcgaagccag caggatgcgg 300

tggccgtgct gcgaccagtg cggcatttgc accaggtcgc agccgccgat atgcgagtgc 360

agggacacgt cgacgaccgg ctgccacccg gc 392

<210> 7447

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-G3

<400> 7447

gggccaagcc cgccttcgac cctaaaacca agccggcggt taagaagaag gaaagaagaa 60

gaagaagaat ggctccttcg gcttagcccc cagggccaaa ccggtgattc cttcccaagg 120

tgtacccgcg gtccttgcca atggccgtgg ccctgggtat ctgctcgta aagcttgtgc 180

gcaacatcac gggcaacccc gaggtgcggg tgaccaagga gaagaaggcg gccggcgctc 240

tggacaacca cgacgagggc gagaggtacg ccatgcacgg cctcaggaag ttcgtccgcg 300

ggaagaagcc cgagatcatg gtttccatca actccttctt cgccgaccct cccaaggacg 360

attaagctag attccgtcat ggatggatga gtatgtttta ccaatcatta actgccgggg 420

gcgccccttg attcgtagcc atcgtc 446

<210> 7448
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-G5

<400> 7448

acggacgcgt gggcggacgc gtgggctggt aaccgatgga tttggtcgtc gaaagcgtcg 60
ttcatgggcg cttccccgtc aggccatcaa ggtttcctct tctgcccggc tcgttgcctt 120
ccactaccgt ggcactgagt gctgcctttt ccgatgtcc atgcccaccc attgttcgtc 180
ggaatgcccc agcggtggtg ccatttgcca agaagaagag gaatgaatat atcgaagatc 240
cgccagatga ggaggtcgca gatgatttca ccgacgagtt ggaggaggac ttcgacgacg 300
ccaaagaaga cgaaggcgat gtaatggatg atgacgaaga gtatgaggac gactatgact 360
ttgaagatga ttttgagagt gatgatgaac aggatcttta tgctggagat ggaagtgctg 420
g 421

<210> 7449
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-G7

<400> 7449

aaatactggt ttttatttgg tttccatttt tcacctaaaga tgtggtttcc attgcatatt 60
ttcctgtgca cataagtgt aatgttagtt gaatctcgca tggtttttga ggcgtcgcct 120
aagcgttgag gcatacccta gatgctgcag gacgccacag ggttttagtt atccaggcat 180
acccccagcg cctcaggatg ccgcaacgcc taaaaaacca aggaatcgca gcagcttggg 240
ctgaaaattt atatttgtgc ttaggatgat gcatctcgga taattggtgc tactgacagt 300
gactcaagaa accgaactgg tctactcaa aaggccatgt cattgccttc ttcgcctcat 360
gaatataggg gtcaagatac ccaaaaaggt gatga 395

<210> 7450
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-H10

<400> 7450

accacgcgtc cgattttctt tctagttaat acgtgtgctt gggagtcctt gcaatttgaa 60
taaaccaaga tcttaccatg actgcaattt tagagagacg cgaaagtaca agcctgtggg 120
gtcgtttctg caactggata actagcaccg aaaaccgtct ttacattgga tggttcgggtg 180
ttttgatgat ccctacctta ttgaccgcaa cttccgtatt tattatcgcc ttcacgtctg 240
ctcctccagt agatattgat ggtattcgtg agcctgtttc tggttcttta ctttatggaa 300
acaatattat ctctgggtgct attattccta cttctgcggc gatcggattg catttttacc 360
caatttggga agctgcatct gttgatgaat ggttatacaa tggcggctct tatgagctaa 420
ttgttctaca c 431

<210> 7451

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-H11

<400> 7451

gaagatctac aactacttcc catatccata ctttgtgtcc ttgatccatc tagtagtggg 60
tgtcgatac tgccatca gctggagtgt cggctctccc aagcgagcgc ctatcaatgg 120
cacgctctc aagcttctct ttccagtcgc cctgtgccat ggtattggtc acatcactag 180
caatgtgtcc ttcgctgctg ttgcagtctc atttgctcac actatcaaag ctctggagcc 240
cttcttcagc gcagcggcta ctcaagttat ccttgacag caagttccct tctctctgtg 300
gctttctctt gccctgtgg tcaatggtgt ttcaatggca tcccttactg agctttcatt 360
caactggact ggcttcatca atgccatgat atcaaacatc tcattcac 408

<210> 7452

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-H12

<400> 7452

accacgagtc cggattatca aagatcacat cattggggac agcacatgac caaacttcaa 60
tgagtggcta gtatgagttt agtcgggtcc agattatacc atgccgactt ctactgtacc 120
tcgtgaatcg tgatgtctat tgggcacttg ttgctgacag aactgtgcac aatgttgatc 180
caatttgatg gatgggtggtg gttctgttat ttactagtcg gtcaaaacac taaacgggtg 240
ccatcatggc tgtgtgatgt atcataactg ttcagtaa at ttgtgttctt ctgcccgag 300
ttctgctcga tgctattgcg ggcggcccga ggtgcttgct ctactgtgaa tgaatgaagt 360
ttgtcacgc 369

<210> 7453

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-H2

<400> 7453

cggcccacgc gtcagcggac gcttggggccc aggattatca tggggacact tatcatttga 60
ttctcaagaa ctgcagtcac ttcacaccag atgtctgcga gcgtttgacc gggaagccag 120
tacctgaatg ggtgaagcga ctgccagat taggttcctt ctgcaattgt gtattgcctg 180
acagcatcaa ggtttcacca gtcagagatg taaatgcaca tccagatttt tctgatgatg 240
gcatggggtc caatgcctcg atccttgagg gaagtgatga cgatgattta gaccaactcc 300
tgagaacacc taacagcgac attgtgtctt caatggacaa ggcattaact cctggcaagg 360
atagtcgcaa actggtcacc ctt 383

<210> 7454

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-H3

<400> 7454

aacaaaaagg gcccaacctt caacggcttc acccccaagt ccatgtgcca gggcggcgac 60
ttcaccgcg gcaacggcac cggcggcgag tccatctacg gcgagaagtt ccccgacgag 120
aagttcgtgc gcaagcacac cgcccccggt gtgctctcca tggccaacgc cgggcccac 180

accaacggct cccagttctt catctgcacc gtcgcgaccc cttgggtcga cggcaagcac 240
 gtcgtcttcg gccaggctgt cgagggcatg gacgtcgtca aggccatcga gaagggtggc 300
 acccgcaacg gctccacctc caagggtggtc aagggtcgctg actgcggaca gctctcctag 360
 atctctctga tctgggtcgt tcggccgccc tcct 394

<210> 7455
 <211> 370
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-014-Q1-E1-F8
 <400> 7455

gcggcgatgt ctgggacacc ccgtggccag aaccctttca gctcaaggga gggcttcaca 60
 gtcaacctcc gcacctttgc catggaccac gaacagtatt ccaagaagag agctttcgtc 120
 cacgtcctac tgaagagaaa gaagaccttc gtgacgggtga cagactccag cgggaacaaa 180
 aagacgggtg cctccgccgg ctgcttgagg gacaggaaag gacgggtccc tctctcccga 240
 tacgtttccg aagcgggtcg ggagcaggtc ggacgggtcc ccaggaagat ggggttgagc 300
 tccatcgta tgaagggtgaa aggggcttcg ttcttcaaga agaagaagaa ggtgatcctg 360
 agcttcagag 370

<210> 7456
 <211> 388
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-014-Q1-E1-E3
 <400> 7456

gccaacgcgc ccaagccctt cgctcggcg gcgcccga aagcaaccga cgacaacggg 60
 agcaactagg'acaaggcggc gtcgtggctc ctccccgagc ccgaccacgg gcagaaagaa 120
 ggcgccacga cggagggtgt cttcgccgac tctgaccgt acctcgacct cgacttcgcg 180
 cgttccatgg acgaagtcaa gaccatcggc gtccagcata gcgggtcacc agagctcgac 240
 ctgcgggca ccaagctctt ctactccgat cactccgtga accacagtgt gtcacgtcg 300
 gaggcagcgg ttgtgcccga cgcggcgtct ggcattggcg ccatggtggc agtggtcagc 360

aggggcctgt agcgggatgc gcggctga

388

<210> 7457

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-E5

<400> 7457

accacgcgt ccgcctacgc ctccgctgac gtgtgggagg acgagtgggt gatctttccg 60

gatacctcac gatgctcgca gtaggacgta gatgataagt tgaagttgac tatgaagcaa 120

atagccatgc gtatgtgcgg gatatttaca aggagatgag ccttgtgaag ccctctatga 180

gaaacaacac atgttatgaa ctgaactgta gaggtgatac tgcattttgt gttacaaact 240

gctatcacat gtttactga tcagttgaga tgttaataat atatacatct gcgttaatca 300

tgtacagatt gacgcgatgc atatgttggt cctgcgaagt gtgatcaatt atgggtattga 360

cgtacgtacc tactgagtgt caaatgagc 389

<210> 7458

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-E7

<400> 7458

accacacgt ccacggacgc gtccgtttag cataccacgg ggtgcatgca catgtatccg 60

attccctgca tcaactcacac ctcaactttt ctgctaaatt gtggcaatgg tgataagtga 120

tatgcataga ctgtcgttat ttattgacta ggcgatacca tttagaatag ccattgtgca 180

tgacatggtt aatctactac agacacacat agttaagcct tgctcagctg atcactgcta 240

tggaatttct gtggagtcca gtttgggggg tcatctcaag cagtgcttga catttaggc 299

<210> 7459

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-E8

<400> 7459

acggacgcgt gggagcggat ctgaggcgac gatagatgga ggcggcggga tctctcggtc 60
tgcagtcctg ctccacctcg atggatgatg tctctgcgct gataattatt ggatcaattt 120
cgataattat tagtagatct atgagatatg ccgcctggaa gaggcgaggt aagctgcagc 180
atgtaaaaaa gagaaaaaag atgtgacatc ctagaggagg aggcctttgc catgatgggt 240
gcgctcgcat ggcaggccag gcaataataa aaagatgatt attgcgtgcc gggggaggag 300
atcgcacggg gggtgatgtt tttggccccg gggtctctc cctcatcttg ttccgtgttc 360
ctgtatgcgt tgcttccgct cctgttggtc cgctacgcac gccggatttt tgcacgagc 420
ac 422

<210> 7460

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-E9

<400> 7460

gtggatcaca tcttctcttt ctggacttgt gttccgcctt tctaactcat ctgagagtgc 60
tttgagcctg acatgattgg cttcccaagc actccttgat gcaccagtg gagtttcaag 120
ttacatttga gatgtatata atgaccatat ataactctcc agtagattat attttctgga 180
gcatgtaatg tagacgttag aggcttgctc tggtttgcca agatgggtgt tacctaagt 240
cctaacaaga ggccgcaggc gagcccagtc caattagatg atgtgaaaaa tttttggcct 300
tttttttagtc tttggacatg ttatcaaatt aaggagggtc tgctagcacg atatccaaac 360
taagaaatac ccaatgaaaa ctgaaaaca 389

<210> 7461

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-F1

<400> 7461

acacttgggc ggacccttgg gcaattgctt tcctgaacaa ttacttgccg gcggtaaggc 60

ccataacttg cacggtgctg cacctaattg cgcaggggct gggcctcgac gacagggacg 120
 tggtcagccg gctggtgctg gaccgggaca gcgactccat gctgagggtg aaccactacc 180
 cgccagcggc ggagacgagg cggctgacgg gggtcggcga gcacaccgac cgcagatca 240
 tctccgtcct ccgtccaac gacgcgtccg gcctcgagat cacgctgcgg gacggcacct 300
 ggggtgctcg ggcctccgac acggaatcct tcttcgtcaa tgtcggcgac gcgttgacgg 360
 tactccatag tcccatctaa cattacattg ctactttatt attacatata cacatgacct 420
 g 421

<210> 7462
 <211> 370
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-014-Q1-E1-F11
 <400> 7462

accacgcgtc cgcaaagctc tctggcatct ctgaaatcat ccccgagatg gagatctgcg 60
 attttgactt cgaaccctgt ggctactcca tgaatgcgat ccatggctct gcattctcca 120
 caatccatgt gacgcccag gacggtttca gctacgccag ttacgaggtt atgggcttgg 180
 atgccactgc tctgtcttat ggtgaccttg tcaagagggc cctccggtgc tttggcccct 240
 cagagttttc cgttgccgtg accatcttcg gcgggcgtgg ccatgccggg acatggggaa 300
 aggcacttgg tgcagaggtc tatgactgca acaacatggt ggagcaggag ctgcctggag 360
 gcgggctcct 370

<210> 7463
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-014-Q1-E1-F12
 <400> 7463

accacgcgtc cgcaaagcaa ctgactcctt tgacaggttt gttttgtacc ttcttgaat 60
 ctgctctggt tctctacata tacagatggg ttcttagttg gtaccatttt cttacatcct 120
 tcaacttcac gcttaccata tagtatacag aagggccatt ggggtcccctt tcagttgtct 180

ttagcatttc agcgacatct gctccacaaa atcacggcgt gtggcggtctc aacgaacgct 240
 atattaaatt aattgttttc tgattgcgac tcatttcagc tctgcattca tgatctgctc 300
 tggaacccat atggttgatt acagccaact tttactttct atgccctctt tgttagggtt 360
 taggttgga acatttgcg catatcattt atgcctttca tttctgtatc tgaaaaaagt 420
 gtgaaat 427

<210> 7464
 <211> 206
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-014-Q1-E1-F2

<400> 7464
 ccctctccct caggtcgggt tcgggtacgt gatgtctccg gggttcgggt tctgggtgag 60
 cggatcacat gcggcctcgg atgttgacta cagcagctgc atctgttgac tcgcctgggc 120
 cagggacgag gaatcccacc acatccccat tgatcaacta ctagccacgt cctcgagtcg 180
 acgatgatcc tcaatgggta gaccca 206

<210> 7465
 <211> 423
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB189-014-Q1-E1-F3

<400> 7465
 ccaaaaaccc gaaaaaatc ggcgggcctt tgcccattcc accaagaaaa ccccaaagcc 60
 tgcacctcgg gaaccccggc ccgaagggat gaattgccac cccctacatt gatttctccc 120
 ccgctccgat ccccggcgca tgaccgggtc ngctggccta tgcacgcag caggagtgtg 180
 cgtcgattgc cctgcctgc ccagttaat cccgcccgt cgcaatccag cattagaggc 240
 gccgatctcc tgccccgtcc tgccctgtgg attatcgaca gcggcgccgg ataccacgga 300
 agagaaggaa gacaaggaag gggccgaaac taacttgctt gtgccggggc aaggacgaga 360
 tcgagggcag ccgagccgt acccgaaact ctaggcgagg ttcccacaat agaagtatac 420

<210> 7466
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-F5

<400> 7466

cccacgcgtc cgcggacgcg tgggcggatt cattttcaca tggtttgctg ctttgcccct 60
aatattgttc ttagcgcagt cattgactaa ggctatagtc caggattttt taatccttaa 120
ggggccatgt cctaattgtg gtactgaaaa ctttccttc tttgggacta tactgtcagt 180
ctccagtggc ggtacaacaa acaaagtga atgtgcaa atgcagtaccg agctggaata 240
tgactcaaaa tctcgggtga tcacacttcc agaagcatca aatgcataaa cataggaaca 300
gggagctcca gagcttgtga attctataga ataaagggtg ttgtccgcac agtatagcaa 360
actgcaagc ctgcaactac taaagtttgg tct 393

<210> 7467
<211> 408
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-014-Q1-E1-F7

<400> 7467

cccacgcgtc cgcccacgcg tccggttcct gctccacgcc ctcgggttcg ccgcccacgc 60
cgaccgcgac gacgtcttcc ccattctacgt cggcgcgcac cgcaccgacg aggacgcctt 120
caggggtgctg cgcgcgcgcg ggcacggcgc cgggaccttc gtgtccaggt tccccaaggg 180
acacagcgcg tccttcacgc tacgcgaccc cgccgaggtc aaggagttcc tgcgcaagct 240
cgtcggcgcc aacgacgaca gctgatgatc cggcccgcga ttcgtttccc tttcccgccg 300
tgnacagctc cgatccgcct gtgtcaagcc gctaactcaa cctcggttac ctacctgctg 360
caccggcaga gggcttcctt gttgttgcaa ctgcatctcc atcgagca 408

<210> 7468
<211> 411

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB189-014-Q1-E1-C6

 <400> 7468

 acccacgcgt ccgcaatact atgtgtacat atagtccaac tcaaaagggt ttagaacct 60
 attttctagt tggcgccccg tcatctgcta ggttacctga agctggtagt cagttaaatt 120
 gtgttggttt accagatggg caggctaaga gtagtactat tggaaaggga tttgtaaaga 180
 ttttgactc aatctccgct cccccgctt ttgctggaga attcccagca atccaccgca 240
 aatctttggc tcatatttct ggggggcgcc ccaacacact ccatgtttct gctgaagtga 300
 tccgcgtagg aagtttagct gttccttctg gtgcagataa gtgggcgctg caaaaggatc 360

aaggcatgga gctggtcttt tctgcagatt ttgagcctga tnaccgtctt c 411

<210> 7469
 <211> 399
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-014-Q1-E1-C9

 <400> 7469

 cccacgcgtc cggaattctt aattcatgag ttgtaggag ggacttatgt caccacaaac 60
 agaaactaaa gcaagtgttg gatttaaagc tgggtgtaag gattataaat tgacttacta 120
 cccccggag tacgaaacca aggatactga tatcttgga gcattccgag taactcctca 180
 gctcgggggt cgcctgaag aagcaggagc tgcagtagct gcggaatctt ctactggtac 240
 atggacaact gtttgactg atggacttac cagtcttgat cgttacaaag gacgatgcta 300
 tcacatcgag cccgttctg gggaccaga tcaatatatc tggtatgtag cttatccatt 360
 agacctattt gaagagggtt ctgttactaa catgtttac 399

<210> 7470
 <211> 389
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-014-Q1-E1-D10

<400> 7470

gtcacctgac agagcatctg tttttggaag ttctgcagaa gatggtttct taaacgtgtg 60
ggatcatgag aaggtgggga agaagaaaaa ttctaattgtc ccagccgggc ttttctttca 120
gcacgctggt catagggata agattgtaga cttccactgg aattcgtcag atccttggac 180
aattgtcagt gtctctgatg atggcgagag cactggtgga ggtggaacac tgcagatttg 240
gcgcatgagt gatttgatct accgcccaga ggatgaagtt cttgcagagc tggagaattt 300
caaggctcat ttggccagct gtgcaccgaa gaattgagtc atgtgggtta cctgcggaat 360
gcaatcctgt ggaaactgag taggtgatg 389

<210> 7471

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-D12

<400> 7471

cccacgagtc cgaacacgcg tccgcccattg cgtccggcag agcacacgta tttgttcctt 60
ggtgctgggg aggctggaac tggtagtgca gaacttattg ctcttgacat ttcgaaacag 120
acgagtgctc caattgaaga gtgccgcaaa aagggttggc tgggtggactc aaagggtttg 180
attgttgact ctcgtaaagg ctcccttcaa tcattcaaga aaccttgggc gcatgagcac 240
aagcccttga aaaccttgta tgatgctgtt cagtccatca cacgtacagt tctgatcggg 300
acatctggag ttggaagaac attcacaaaa gaaatcattg agggcatgtc ttcct 355

<210> 7472

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-D8

<400> 7472

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaa ataaataaat taaataaaaa aaaaaaata aataataata ataaataaat 120
tttaaattt tttttaattg aatgtgtttc ttttagttt tttatttttt gggaatattt 180

tctttttttt agccttattt tttttgtttt tgttttgtgt ttctttggct gtctttatat 240
 tttgtagttc tgggtataatt gtctctttat attattttgt catatttttt gttttatggg 300
 atgtgttttt tttctgtatg ttttgcttgt tggatttgtt tttttatt 348

<210> 7473
 <211> 397
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB189-014-Q1-E1-D9
 <400> 7473

atctcctctg ccgccgtcac cgcccccttc ttcgccgcac cagcgccagc ccgcgccgtg 60
 gtcagaagga ggtccttcac cgtgcgcgcc tctctccgca aggccaccgg caccgccgcc 120
 gtggcaatgg ctgccagcgc cctgcttgcc ggcggtgccca tggcccagga ggtgctgctg 180
 ggcgcaggcg acggcgggct cgtcttcgag ccagccagt tcaccgtcaa ggccggcgac 240
 accatcacat tcaagaacaa cgccggcttc ccgcacaacg tcgtcttcga cgaagacgag 300
 gtgccgagcg gcgtcgacgc caccaagatc tcgcaggang agtacctcaa cgcgccaggc 360
 gagacctact ccgttcacct caccgtgccg ggaacct 397

<210> 7474
 <211> 384
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-014-Q1-E1-E1
 <400> 7474

cgtccgaaga tagagaggta cagcacgaaa aaaagaggca agagagatag gggaccggag 60
 ggcggcgggc cggggcccac gaccgagggg ctctgtgcga ggaagctgat gaggctcctg 120
 tcgtcgtcc ccttcggctg ccgtgctgga cccatcgacg acgcgcgcc gcccgaggac 180
 caccgcccg ccgcgaggag gcgcgggagg aggaggcca acagggccgc ccagctgctg 240
 ggggctgctg cgggtgcgcc gcagcagtgg cgccctcgc tcggcgacat ctgcgaggag 300
 tacagcagca gcaccgacgc cgtcaaggtc aggaaggcgg cgtcctggga cctcgcccgg 360
 gcgctgcccc gcgcgcacgg cggc 384

<210> 7475
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-E10

<400> 7475

caacactatc tgccagagaa agaacttgct atcccagatc ctctttctgca cttcatccag 60
 tcccatgggtg ctgctcttac tattgatcaa agtgggtcggg tcctcttagc tggcaatgggt 120
 gatgagatga gagacttgct ctcaattttc ctggcggtca acatgtcgag acgagaaaca 180
 ggtggctgca aggctgcatt tcttggtcca tactttgaga ggaaaagacg ttctagggct 240
 aacagccaag tatccaattt aaaattagca ggcacaactg ctgatgtttc aaaaagtact 300
 gattttaatt caaaatcttt gtcaaagaag aaacataaag tgaaaaacat caaagaacgt 360
 gactcgtatc agagaaacta catacatgct 390

<210> 7476
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-E11

<400> 7476

cggacgcgtg ggcggacgcg tgggttcagg agctgaaggt ggtgactttg aatctgggtga 60
 tagtgcagag cttgaggtag gaatgttgga tcatccatt tctgttgctg ctgcttcaga 120
 agaagtgaca gcagatgagg ataactgc tttagctact tcaaaccaaa ataatccaga 180
 ggtaccacaa gttgaagaag tgccgaaagc agacaaggat aactgtgctt cagctacttc 240
 aaacccaaaac aatcaagagg tgccacaagt agaacaacat gttggcatca gcaactctta 300
 ttcagagccg ttggaccttg caaagtacag ttcattctgca gaattggagg tgcttggctc 360
 ggagaagcta aaaatagagc tgcaatctcg ccgattaata t 401

<210> 7477
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-E12

<400> 7477

cccacgcgtc cgccccaggt ggcggcagcg gcggcggggt agcatttgtg ctacgagggc 60
ttttgcaatg gcggcttcgg ggttcggcgg cggcgagggc ttccggctct cggccgcgcc 120
gggggcccggc ttactgaagc tgcacaaggc cgacatcacc ctctgggtccg tcgactgcgc 180
caccgacgcc atcgttaatg ctgctaata gccaatgtta ggtggcggag gtgttgatgg 240
agctatacat caagctgctg gaccagagct agtgcaagca tgccggaaag ttccagaggt 300
caaaccagga gtccgttgct ctactggaga agctaggatt actcctgctt ttgagcttcc 360
tgcctctcgg gtgattcaca ctgttggccc tatatatgat ttggac 406

<210> 7478

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-C5

<400> 7478

gcgcacatgc gcagcctgat catgagggag tgggtggagc tcaacaggga gtgcttctgc 60
aggaggacct tcccctcgga catcgcgag gtctgcttga acaccgtgag gatggtcagc 120
gtcatgtact cgtacaacaa ggagcagagg cttcccgtcc tcgaggacta cgcgacgatg 180
atgttggtgg tttgatttga agcatgcatg catgcaatgc tctctccgat ccgcggatat 240
gaaagtaaag tccttgatc gcagataatg atttgtttg agaccagagt agtctagagt 300
agagattagg ctctgtaaaa ttagatagct aggattagaa taactgggca aacgaatata 360
tggtatatgt ccatatgtaa agatgcaata tatagcaaca tatatggtac cgtcgtaaaa 420
a 421

<210> 7479

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-B1

<400> 7479

gtcagaggac gcgtccggct aaatgccggt gggctcgacc ttctatataa gtatatcccg 60
tctttatctt ctggatgagg attatcactc aagctagcat gtatttcaaa cttaggaaaa 120
ttttacatca ttcaaaatgt aatccttcta attcactttt gtaaccactc cgatcatgta 180
caatgtaaac ttgttgtaaa ctgataaaat tttgtaataa aaaaattccg ctgtaaatta 240
tggtgtgtgt tttgtgttta cttaatcctg cgatcttggc ggtaagtggg ttatccgggg 300
tccttgggac actcggacat atcctgttaa gttgtttggg gcacatgcat agccgtttga 360
ggtccttggg acaaagat 378

<210> 7480

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-B10

<400> 7480

accacgcgtc cgcccacgcy tccgcccacg cgctccggga attcaagtcc tctatcacca 60
gcatcatatg cccaaaatgg tcttggaac tatagtaatg aagcttttgg tctgccaac 120
agtccatata gatctcattc agctatactc gcagatgata ttgtttcacc ttcagctgga 180
cgtgaacata tatccctcga tggtcctaga ggaaggata agacaactag tttgcctggt 240
cctgggtcttg gttcaagcag aggttctcag gtgttggttg gcccatataa tggaaccat 300
gatatgatct caaccaatac cctacaaaac atggctggaa ttcagacagg agcagcttgg 360
cttgaaactg atgctgcggc aaacacata 389

<210> 7481

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-B11

<400> 7481

cacaagcact tcgacgtcgc acgggcgctg cacacagaca caccaagcgt cggcaccaat 60
ggcttactac caggaggtgg actactgctc ggaggaggtg aggtcgggtg ccccgccgg 120
cttcggccgc cacggaagcg gcgtccagca gcacgtcgtc aaggagaagt tcgaggaggt 180

cgacacgggtc tcacgcgcgcg gcgccaacca ccaccaccac caccatgggtc accacggcgg 240
ccacggcttc gtggtgcgcg agaccagggt cgaggaggac atcaacacct gcaccggcga 300
ggtccacgag cgcagggaga gcttcctcgc cagggctaac tgagccgccc ggcgcccggc 360
atccacgccc gttcgtgcct gcctg 385

<210> 7482
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-B3

<400> 7482

cgtatccaga tcgagagctg ccttgtctgc acatgcagaa gcgccaagag cgagcgcctc 60
atgtctttat attgctctca caccctccgt ttctcgtcc caccactgc cactgtactt 120
gtgttggtgt gtgttggtgt ctgcaagaag aataggagga ggaatagcat gtgctgaaaa 180
gcctgccagc gcgctttacg acaagcatat atgggggaga tcaccaagcc tttgccaagc 240
agaagcttcc gaagatggcc tacgactact acgcgtccgg cgcccacgat gagtggacgc 300
tgcaggagaa catggaggcc ttctccagga tcttgagcac ccgttgatga gataagattg 360
ccaagaaac 369

<210> 7483
<211> 269
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-B5

<400> 7483

cctgcacctc ttcattgacac tccacaaatg acgaaacttg cacctgaaca tatgggcaat 60
aaggtgaacc gaaaagcgat gccattatct aagcttgggg ataaatgtga cgtaacattg 120
gacgtactct atctagcttc cgatccagga tcatatgtaa gtggggctat aattagtgtt 180
aacagtagtc tttggttgag tcgctcgtc catattcccc acgatgatct caaggcagtc 240
tttaaagttg tctctaaaat tgtaaggc 269

<210> 7484
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-B6

<400> 7484

aggccaaaac ccgcgcacac cggcgacggc aggagaacct cccgccggcc gccgccatgc 60
cgccgcctct acaggccac cgcctactca tctcccacg ccgcctaccc actccagctc 120
gccgccggtt caccgccgcc tcttcgctcc aatccgctcc cgccacaacc ttggccccgg 180
gccccgccac atcctccatc ctctccatcc gcgagtcgct cctctcaggc gagaggaccg 240
cggcggacat cacctccgag tacctctccc gcctccgccg taccgagccg accttgcgca 300
gcttcatcca cgtcgcggac gccgccgccg agcgggaggc ggaggaactc gaccggagga 360
ttgcctccgg ggagaatgat gctgtgggtc cgctcgc 397

<210> 7485
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-B7

<400> 7485

cccacgcgtc cgggatgaag gacgcaaac ccgcaaagac tccgatggga accgacggac 60
acaccgacct caacaaagga ggtaagtccg ttgatcaaaa agcataccgg tcaatgatag 120
ggtcattact ttacttatgt gctagtatac cggatattat gcttagcgta tgcattgtgtg 180
ctagatttca atccgatact aaggagtgtc acttagtggc agtgaaacga atccttagat 240
atttggttgc tacgccttgc ttcggactct ggtatccaaa ggggtctacc ttgacctga 300
ttgatattc agactccgat tatgctggat g 331

<210> 7486
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-B8

<400> 7486

acccacgcgt ccgaggacgc gtgggaagct ccccaacgaa gtgcgagcga cccacgtcga 60
 cagcacagca accaccacca ccaaccatca gccgcaccac gcacccagcg caaagcgatg 120
 gcgtcgctca ccatgatggc gtccttcgcc gccgtggcgg tggccgcgcc ctgcgcgcgc 180
 ggcaccttcg ccgtgggtctg gtccgccatg gtcgaccgct gccatgagcc cgccacgcta 240
 gcagcatgcc gaggccaggc ccgcccgcga cggacgcgcg gccgtcatgc tcgcggctgc 300
 tgccggcgcc gtggcagcca tcggcggcgc cggagccgcc atggcgggcc ccaataacgg 360
 gaccacctac gcgatcaaga ggtacgcgcg catctgcggt cacatgcccc ccgccaaggt 420
 c 421

<210> 7487
 <211> 383
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-014-Q1-E1-B9
 <400> 7487

atgccgtgca gttcttggtta aggatgattt gaggaggga cttgaattgg atcctgagct 60
 tcctgcagta ctgctcatgg gaggtggaga gggcatgggt cctgtcaaaa agactgccag 120
 agccctagga gaatcattgt ttgacaaaaga gcttggaana ccaattgggc agcttattgt 180
 catttggtgc cggaacaaaa cgctaagctc ctactgcag gcagttgaat ggaaaatacc 240
 agtaaagggt aggggatttg aaacccaaat ggagaagtgg atgggagctt gtgattgcat 300
 tataacaaag gctggaccag gtaccattgc tgaagccttg ataaggggtc ttcctataat 360
 ccttaatgac ttcatacctg gac 383

<210> 7488
 <211> 68
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-014-Q1-E1-C1
 <400> 7488

gcatctctgc ctgcctatct gcaaccgccc aacaccgctc ggcgcgcgca tgacgcagcg 60
 ccgcaaca 68

<210> 7489
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-C10

<400> 7489

aggacgcgtg ggctacgctc taatctgtgg caactgccat atgcataacg gtcttgcgag 60
gaaagaggac ttgaccttcg tcacatacta ctgccctcac tgtaatgccc tcaatggatc 120
ccggcaacat gatgaccatg aattgggtacc tgattctggc aaggagagtc ctgattctca 180
atctggcgga atcattggcc aagctgggtgc aagccttgca acctcagggtg ctgcgagtcc 240
tggtgcaagc agcctaccaa cccttgaaga actctctgca gaggaagatt ctggggagaa 300
ggcgagcagt gaccaacctg ccaattgaac tcatcatttc ctgtatattg tgttccttgt 360
ggagtaatgg tt 372

<210> 7490
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-C12

<400> 7490

gacgtcccaa ggcagactcc caagcaattc ctgtattctg gtaacccgca gcacctctgc 60
catccgtacc agtcagctcc ggatgcccac gtcgtgccgc agcgccgtta caccgtgagg 120
tctcagtctc actcgccaaa taatgctggt tctcaagacc atgagactca caagcagtac 180
acgctggagt cctcggcggc ttccggttgt tcaaggcatg gttctccctc cagccaaagc 240
gtccatgccg ggagtggcag ccctgtgtct cacgacgaca gccactccgg ctccacgaac 300
ggccatggat cacctgtgag cgcgtcgtgt gtcaccggcg aggaccctac tgatctcaag 360
cagaaactga aggatcttga ggctgtaatg ctggggacgt ctgagactga ccccgagat 419

<210> 7491
<211> 414
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-014-Q1-E1-A7

<400> 7491

agcacgagggc cgccgagtgcc tccggatccg acgcgctccc ggacttctcg tggcagggcg 60
tgtcggcggc gtacgacgag gcccccgccg cgccgcccggc cttcgacttc gaggcgcggc 120
cggagagcgc cgccgacgag gcgtcgcccc gggcctccga ctccgagtcg gacgcgctgt 180
tcgactcgct cctcttcggc gaccagtctg ccttcttcga cgccggcgcg tacgagtcgc 240
tggacagcct gttcagcgcc gacgccgtgc agagcaacgc cgccgcccgc gcggaaccagg 300
acatgccgct gtggagcttc gacgacggct gcctcgtcga ggacaacctc tcgttttaag 360
cctcggcgac tgttggtgtg tcntgagttt tgtaaattac gacctgtntt tttt 414

<210> 7492

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-013-Q1-E1-H12

<400> 7492

gggtccagtc agactccgat ttagcagttt tctgctccag ctggcttcct tgaccatcct 60
cacaggggat ttgagaacgt tacctatatg ctcgaggctg ctttcagggc ggcatcagtt 120
accacgactt ttcaggccac aagggaacca tcaaccagg agacgttcag tggctgacgg 180
cggggcgcgg cgctcgtgcac gcggagatgc ccgcccggc ccaggagta cagaggggca 240
tcaacatctg gatcaacctc tctgccggcg acaagatggt ggagccgacg taccacgacc 300
tgccgagcca cgacatcccc gccgcccggc cggacgccgc ttgcagcgtc tccgtcaagg 360
tcatecgggg cgagtgcctc ggcacgcgt ccccgctccg gccccgcacc ccgggct 417

<210> 7493

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-013-Q1-E1-H2

<400> 7493

ccacacgtcc ggccctcagag gagctggcaa acgactgtga taataaaagg ctaaattccag 60
gaaatgacaa ttatccactt tcaacagcag gtgcaaataa tttgtttttg ggtattgagc 120
aaggagctgg aagcagcaat ggccaggctg ctttttcgaa atttgactat gggagctcaa 180
tgtcattacc atctgggcag ggaatgtctg gtcttatcgt aaaaggggca aaatggcgcg 240
acggggactg gttgtgcaac aactgcaaca accacaacta cgcattctcgt gcgtttttgca 300
acaggtgcaa aactcagaaa gaatctgcag ttcaccctgg tgtgctatag cttgcttttg 360
ctggttcata ttgttggaact cctttg 386

<210> 7494
<211> 205
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-013-Q1-E1-H5

<400> 7494

cggacgcgtg ggcagttatc ggagttatcg gtctacatgg tcctgaccag tcgtatgtct 60
cggctgcctg gtgcagctat gaaaacgttt tgcaatagct tttttcggca gtctcacat 120
catcacgggtt gtgtttccgc ttccatatct gaatggaata catatacgta tgaaataaaa 180
ctgtgtaatg gctgttgctc ggatc 205

<210> 7495
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-013-Q1-E1-H6

<400> 7495

gacccacgcg tcaaagacta catatgggcc tcggagggtc tgcatactgt taaagtcttg 60
gacacatttc ccatagagat ttgaaaaaa acaactgggt tcccgaacaa gaaatgggga 120
agcgatcaca ttgcccttgc ctgtgaattg gctttttaca aatgacgcct tttatcaggc 180
ggagagagcg cctgcatagt tgctagtgac caaacacacc tcaagagaaa gaatactgtc 240
tacaggacga ttaactgaac caaacctcgc tcttttagag ctcgtaatt tatttcattt 300
ttttttcgac acaccttttt gaattgtgcg tgagtatgga gaaccggagt acatcacttg 360

ggtccaattt tagagcattg ttcctgttt

389

<210> 7496
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-013-Q1-E1-H7

<400> 7496

ctcacatgga aaaagtga aaactagggct acggcaattc taccggcccg ccgactcctg 60
catcatcata aatatatata ctatactata ctactacgta cctaccgata tgcacccgag 120
caatgtgaat gcgtcgagta ctatatatct gttttctgca tctacatata tataccggat 180
caatcgccca atgtgaatgt aataagcaat atcattttct accacttttc attcctaacg 240
ctgagctttt tatgtactat atcttatatg atgaataata atatgaccgc cttgtgatct 300

<210> 7497
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-013-Q1-E1-H8

<400> 7497

agttttggag cactgcggtg gtacctcaca aagccagtgc atagtagatg agatattgca 60
gtcggcgtgc gtccttgccg aagatcagta tggcaactat gttacacagc atgttctaga 120
aagaggaaat gctcatgaga ggagccaaat tattattaaa ttggctgggc aggttggtac 180
catgagccaa aataaatttg catcaaatgt gatagagaag tgttttcaac atggtgatat 240
ggcggagcgg gatctcttga tcaggcagat tgtggagcag acagagggca atgacaattt 300
gctggcaatg atgaaggacc agtatgcaa ttacgtggtc cagaagatac tcgaaacatg 360
caatgag 367

<210> 7498
<211> 286
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-014-Q1-E1-A1

<400> 7498

eggacgcgtg nggtccctcn accgcaacgg ggattgagaa actgctgcgc ctggaagaaa 60
cggcgccgag ccgtggctcg tgggtctgta cgcgccttgg tgcccgttct gccaggccat 120
ggaggcctcc tacgtggagc tggccgagaa gctggcgggg tccgggggtga aggtggccaa 180
gttccgcgcg gacggcgagc agaagccgtt cgcgcaggcc gagctgcaac tgcagagctt 240
tcccaccgtg cgctgttcc cgggcccgcac cgccaggccc atcaag 286

<210> 7499

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-A10

<400> 7499

actacgttc ctctttaatt cagtgtgtat tgcaatgttc tcaacaaggt gggcaccaca 60
gtgggcccta ttgctacgat gatttccggg atgactaacc tggataacga tgcagttaat 120
gcactatcaa ttctgcttac agctgtgctt accacttata tctgcattta catcatttag 180
ataactcggtt ggttaaattcc taatttgcac cctacttttc attgcgcact gtattgccac 240
cttaccctgc actgttcctg ccaatggcat atcctgctac ttctctgtgt agtggttagag 300
tttgtattag ggcatacaac tgcagattca tctccagcgt gcaacgaatg g 351

<210> 7500

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-A12

<400> 7500

accacgcgtc cgcacacacc attcctgggc ctgggcgaca aggccacaca cgatcgccgg 60
cagtttccga aacgagaaaa ggaagaaaca ggaggcgaga gatcgagatc gatgagcagc 120
ggtcagtcgt cgccatgccc acatggcggc gcccggccgg gagcgagccc ctccaagaag 180
ctgtggcgcg ggggtgcaagc cgtctacctc gtcctcgtca agaagcacca gccgaagctc 240
gccgcgttcg gcgtccacat gcaccgcctc ctctccagca gcaagcgccg ccgcgcgcgc 300

cacctcgccg cgcgggggcg ggagcagaac ccggcgctga cgtacatgtc gtgccgggtcc 360
atggacccccg ctgccgcggt ggggtgcaccg taaccgca 398

<210> 7501
<211> 421
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-014-Q1-E1-A2

<400> 7501

caaaggaaat tccttgaaga acaaccaagg cttcaaccgt tgcccccccc ggcaacaaaa 60
tcctggggaa ccccttgcc gaaccgggcc caaaaaaacg ggcccacctt ggcccgggtcc 120

gggtccggtt tgggcgga ggcacccct gtcacaaaa aggtggcgaa aacatcgacc 180
tcctctgacc ggcccctgtg gttccccggc gccgtggcg cgcactacct ggacggctcg 240
ctggtcggcg actacnggtt cgacccgttc ggtctcgga agcccggtga gtacctgcag 300
ttcgagttgg actcgctgga ccagaacctg gccagaatg aagccggcg catcatcggc 360
acccggttcg agtcctccga agtcaagtcc acccgttgc agccctacag cgagggtgtc 420
g 421

<210> 7502
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-A4

<400> 7502

gtcgacgcac ggtccacgg acacgtggga gtcggacac catcgacaat gtgaaggcga 60
aaatccagaa caaggagggc atccccccgg acaagcagcg tctgatcttc gccggcaaac 120
agctggagga tggccgcacc ctagcagact acaacatcca aaaggagagc accctccacc 180
ttgtgctcgg tctccgtggt ggtcagtaag tcatgggtcg ttttaagctgc cgatgtgcct 240
gcgtcgtctg gtgccctctc catatggagg ttgtcgaagt atctgctgtt cgtgtcagtg 300
ttggtttaat aatggaccgg ttgtgttgtg tgtgcgtact acccagaact atgacaaatc 360

atgaataagt ttgttgtttg aaattaaagc ctgtgctca

399

<210> 7503
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-A6

<400> 7503

agatggcaca agccatggcg tccatgaccg gcctctcgca gggcgttctg cccagcaggc 60
gcgcccga cagggccagg acggccgccc tcgtcagggc gtccgcccag gcgcaggcgc 120
aggcgggccc ccgcgccgtg ctccgggctgg tggccactgg catcgtcggc ggcgccctgt 180
cccaggcggt gcacgccgag accgtcaaga ccatcaagat cggagccccg ccggcgccct 240
ccggtggact ccccgggact ctgaactctg accaggccag ggacttcgac ctccccttga 300
aggagcgggt ctacctgcag ccgctgccgc cggcggaggc agttgccacg gtgaagacgt 360
ctgcgcatga catcatcaac ctcaagccac tcatcgaca 399

<210> 7504
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-013-Q1-E1-F4

<400> 7504

tgttccatgg atccttgaaa aaatcaagct tcttttgcac cacaaggcca aggatgtctt 60
gcaactgcgg atcaagctgc ggctgcggct caagctgcaa gtgcgggtaa tatatatgat 120
aatatataag tgcaccgtgc atgattaatt tctccagcct tcttcttgtc tagttaattt 180
ccatttattt attttttcca ttgcaaaaca aacaaacaaa cagacaagaa caaagttaat 240
ttggatcgag tagttcaatc catttgccgc ctgtcctttt cagcaagaag taccctgacc 300
tggaggagac gagcaccgcc gcgcaggcca ccgtcgtcct cggcgtggcc ccggagaaga 360
aggcgcg 367

<210> 7505
<211> 371
<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-013-Q1-E1-F5

<400> 7505

aggagagaga gagagagcga gagagagatc tagtagagag gctagtaggt ggtcctcgaa 60
cgaagatggt ggcggtgttc agcgggcagg tggtaggaggt gccggcgagg ctggtggcgg 120
cgggcagccg gacgccgtcg cccaagacga aggcgtcgca gctggtgggg cgcttcctgg 180
ccgcgtccga gccggccgtg tccgtgcagc tcggcgacca cggccacctc gcctactccc 240
acaccaacca ggcgctcctc cgccccaggt cgttcgcggc caaggacgag gtgttctgcc 300
tgttcgaagg ggtgctggac aacctgggtc gtctgagcca gcagcacggg ctgtcaagca 360
agggcgccaa c 371

<210> 7506

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-013-Q1-E1-F7

<400> 7506

cccacgcgtc cgccctcgaa gactatagac aaatatttta gtccatattt taatctcgtc 60
atttgacaat ttaggaacta aacgagacta aaataaaaag aataatattt agtccctcaa 120
aaccaaaactg gccttaggag gtcctagggg tagtgcacag tcattagatt cagattgaga 180
gtagaatcat ataaagccag caaccacaa ccatgcttat tttattctac tatgttctgg 240
aggcaaggga atagaccacg cgcttgcaact ggttttattc catggggttg tttgtgtctg 300
gcctgtgagt gacctgagaa tgacagcatt tggttggttt gtttgccta gattcaaac 360
agctgtt 367

<210> 7507

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-013-Q1-E1-F8

<400> 7507

acggacgcgt ggggtattatt aagaccaact agcaacatag aaagcacaat agtgtaccaa 60
 caatggcagc caaaatattt tgcttcccta tgctccttgg tctttctgca agtgctgcta 120
 ccgcaaccat tttcccacaa tgctcacaag ctctatagc ttcttttctt cccccatacc 180
 tctcaccagc ggtgtcttca gtatgtgaaa acccaattct tcaaccctac aggatccaac 240
 aggcaatcgc agcaggcatc ttacctttat cacccttggt cctccaacaa ccgtcagccc 300
 tattacagca gttacctttg gtgcatttgt tggcacaaaa catcaaggca caacaactac 360
 aacaacttgt gct 373

<210> 7508
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-013-Q1-E1-G1

<400> 7508

cccacgcgtc cgcccacgcg tccgcggacg cgtgggggct gtgtccgtgg ctccattcct 60
 aaaccccggt gtggacgatg gccggtgatg atggccatcg ctaagatcat cttatgtcaa 120
 gcactcaagc cacagattgt tttcttggag atccaccttt aaaggcccca ttatttaggt 180
 tgaatgtgga tgacagattt atgttgttga ctggatgaga tgtcctaggg tttcctcacg 240
 ttgtagaata caactctcac aagtataaga atctaggaac atattccttc gatgtaacat 300
 acctcttttg tttaatctgt tttgtaagag aaaccagaag aacaccttgt atttcggttg 360
 atattttgaa acccacagcc aattgaatgc cgggtttttt aggc 404

<210> 7509
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-013-Q1-E1-G11

<400> 7509

gggccacgac gcgtccgcac cagcagtcgc attccagata agcacgatcc gatgatggcc 60
 ccaccgatat ccgccgatgc cttggtggag gctgcctcgc ccgtcgcgcg gtacccagcc 120
 atcgcgccga acagaatgct ttgcaaggac gcgcgcgcgc cggccatctc tgctgtctcg 180

aagcagacgg tccggcccgc cggcgcgctcg gcggcggtcg gcagtggaga cctcaggctc 240
 tcggtgtcgg acatgccgat gctatcgtgc cactacatcc agaaggggct gttcttccc 300
 ccgcctctc acggcgtgct ggcggcctcg ctggtgtcgt cgctcgtggc ggcgctctcc 360
 cgcgcgctcg gcgtcttctc cgcgctcgcc ggccgcctcg tcacgctcca cga 413

<210> 7510
 <211> 361
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-013-Q1-E1-G4
 <400> 7510

cttcggggcca atttgccccc gtgaatataa agggaaagac ttttgtgcct gggaattcaa 60
 tcatggccaa aatttcccct gaactcggcc tcggtcttgt aatccctgga cccgtcgggtg 120
 tccacaagga catgcttctc gcggcctcaa aagcgctagc tgatcaggcc acacaggaca 180
 acttcaacaa gggctccatc ttcacaccct tcaccatcat cagaaagatc tctgcgcaca 240
 tcgctgcagc cgtggatgca aaagcctacg agctcggctt ggcgaccgt ctgcatctcc 300
 ccagcgacct ggtgaaatat gcatagaact gcatgtacac tcccgtctac cgcaactacc 360
 g 361

<210> 7511
 <211> 353
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-013-Q1-E1-G5
 <400> 7511

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 aaaaaaaaaa attaaaaaca ataaaaataa ataattctatc aaaaaaatat tactaaaaaa 120
 aaaaaattta aaaaaataca aaaggggggc ccccccaatg gtttcatcct ttatttcttc 180
 tttcatggaa ttttaaactt tttttaattt ttcactattt ttcattacag ggtctttttt 240
 ttttaaactt cttgcaggga aactttttga tttttctaac tttaatccct ttgaataaat 300
 tccctttttt cattggtgcc ttttttcaag acagaccacc agctttacct ttt 353

<210> 7512
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-013-Q1-E1-G6

<400> 7512

agctagcgct tatagcttgt cagccatggc caccgccgcc gcgtctagcc tcctcaagtc 60
ctccttcgcg ggctcccggc tcccggccgc cagcgggacc acaccggcgt ccctcgtggg 120
ggccaccggc ccgcgcggcg ccggcgcggg gcccatctgc gcgtccatgt ccatgtcctc 180
ctccaacccg ccctacgacc tgacgtcctt ccggttcagc cccatcaagg agtccatcgt 240
gtcccgcgag atgaccgcgtc gctacatgac ggacatgac acctacgccg acaccgacgt 300
cgctcatcgtg ggcgcgggct ccgcggggct gtctgcgcg tacgagctct ccaaggaccc 360
cgccgtgagc atcgccatcc gtggacagtc ggtgtcgccg ggcggcgggc cgtggctggg 420
c 421

<210> 7513
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-013-Q1-E1-G7

<400> 7513

tgggtggtcta taagtcaggc tatggctgtt tgaaatgtga tgtttgaagc tgtcaaaatc 60
tggacagcaa tgcttgtttg tattaactga cttcgatata cattgaatca ccttgagatg 120
attataaatg aactgtagac aattctatta gctttctaaa aagtcaggga ttacctgatt 180
tggatttcca aaaaccagc tatgaattaa tgaagttagt agtcgaattc taaccaaattc 240
tggacagaaa ttgcgttttag tattgtttga catttctaaa tgcgaatct catgggtgatg 300
ataataccaa aatttttagag gactttataa gctttccaaa aagtcttagt ttactatctt 360
tggatgaata ctgtgtaagt tatgaattaa ac 392

<210> 7514
<211> 439
<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-013-Q1-E1-H10

<400> 7514

ggtcgaccga cccgtccgcc cacgcatccg agcttctcct tctctctctc tccttctctg 60
accattctct ctatctcctt tctctctcta cacatactca gacgagcaga agcagctagg 120
gacaccatag gcaaactact tcagcaagaa attaaactat ctctacgca agatcagaag 180
aaactgtgta tggagcaaga agaggttggc ctcgccctgg gcctctccct cggctccggc 240
caccaccacc aggagctcaa gcccacaacat ccgtcgcata cgtgtgcggc gttgttgagg 300
ccttctctgt cgctcagcgg cccggcgacc aaggatgatg gcccgaaccg accggtgagg 360
aggttcgctg ccgtgaagag ggagctgcag acgatggagg ggaacgacga cgaggccacc 420
ggcaggttac ttgtctact 439

<210> 7515

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-013-Q1-E1-F2

<400> 7515

cggccaacgc ttcggccac gcttccggaa agtgcacgt gtgagtgttg tggttcatgt 60
tcacgtcggg gtttactctc cccggccatc agtgtctcat tgggaacgcc gcggtgccgc 120
cggtgaacgc cgctgggaat gatctcgccg tggcagacct tggttggggc cggttgcggtg 180
cgtgatctag gggttggtctg ctctatgagc tcccaaaata aagagtgaag atttaagata 240
aagtgggtgc tgaagaggag tctactccag tgcttgttca tcaagtggat ggagccatct 300
aactgatcat cgtgttagaa gtatctagaa cctcttctct gcaacaaagg agaagtttta 360
ttcctttatc ttttg 375

<210> 7516

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-013-Q1-E1-D9

<400> 7516

cggacgcatg ggcggacgcg tgggcggacg cgtgggcatt gctactggac tctcgaatta 60
tattttcttgg aatgcctatt gttccagcag taactgagct tattgctgct caatttctat 120
ggctagacta tgacgaccgc acaaaaccca tttatctgta tataaaactcc actggaacta 180
tggacgaaaa taacgagctt gttgcatctg aaactgatgc ttatgcaatt gctgatttta 240
tcaatcgaag taaatccaag gtttacacaa tcaatcttag catggcatat ggtcaggctg 300
cgatgcttct ttcccttggg gtcaagggca aaagaggagt gctgccgaat tcaatcacta 360
aattgcacct gcctaagggt cacaaatctg gtggagctgc cattgatatg tggat 415

<210> 7517

<211> 72

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-013-Q1-E1-E10

<400> 7517

gtccgcagac cagtgcgact ctgctcggcc tggcggctgt cttccccgtg acggctacca 60
ccgggtatgc ta 72

<210> 7518

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-013-Q1-E1-E11

<400> 7518

ggtccacgac gcgtccggaa tttatacaaa agaaaatact tatgaatggt gaatccgtca 60
aaggccttga tgggttcaac atcaaaaaaa attacctctg caaggtagca aactttgatt 120
tttaaagtat aaagctgaga ccgggtgggt gacttgcacg agaagggagt ctcggtgtag 180
tgtctccgtt tgagtcgaat taaggacatg tcgatgtagg cttgatgatt gaggaccttt 240
taactggtca catgcctcat catggataag ctttgcctcg ggcagactaa taccagaaaag 300
gccaacacac aatgggagtg gagagatggc gagagtagcg tgtaccctcc atggtaagaa 360
gctggacggt ggtgtatctg tgctctcg 388

<210> 7519
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-013-Q1-E1-E2

<400> 7519

gtcagaggac ggcacacgag ttgatgagaa agtggtcgcc aatgtgggca agactatcgg 60
gtacaaagtt ggaacaatga ttgagatccc cagggcagct ctggtggctg atgagatagc 120
ggagcaggct gaattcttct ccttcggaac gaacgacctg acgcagatga cctttgggta 180
cagcagggat gatgtgggaa agttcattcc cgtctatctt gtcagggca tcatccaaca 240
tgaccccttc gaggtcctgg accagagggg agtgggagag ctggtgaagt ttgctacaga 300

gaggggccgc aaagctaggc ctaacttgaa agtgggcatt tgtggagaac acggtggaga 360
gccttcgtct gtggccttct tcgcgaatgc tgggctggat tacgtttcct gctccctttt 420
caggggttc 428

<210> 7520
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-013-Q1-E1-E4

<400> 7520

gaccagggcg tcgggaagaa gacaagtgtc aagtgaacct gaaacttgcg gtgtcactgg 60
ctggtataacc ctgattgtga gtgagtgatc aagctagctg agctccgatc ctgctagct 120
agctaggata ccgccataacc acaagtcttc ttcacaagtt taggagtgac agcaacatga 180
gatctcgatg gcctctgcca ccgtgctcaa gtcctccttc cttcccaaga agtccgaatg 240
gggcgccacc aggcaggccg ccgcgcccag gccgcccacc gtctccatgg tcgtccgcgc 300
ctccgcctac gccgatgagc tcgtgaagac cgcgaaaacg atcgcgtcgc cggggcgggg 360
catcctggcg atggacgagt cgaacgcgac gtgcgggaag cggctggcgt catcgggctg 420
gagaacacgg ag 432

<210> 7521

<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-013-Q1-E1-E5

<400> 7521

gggcgcgcag gcgctggacg tcgtggaggc cgtggtgcgc gagctggaga cggaccctt 60
cttcaactcg gggcgcgggt ccgcgctcac ccgcgccggc accgtggaga tggaggccag 120
catcatggac ggccgcggcc gccgctgcgg cgccgtgtcc ggcgctctcca ccgtcaagaa 180
ccccgtgtcc ctggcgcgcc gcgtcatgga caactcgccc cactcgtacc tcgccttcga 240
cggcgccgag gagttcgccc gtgcgcaggg cctggagacc gtggacaaca gctacttcat 300
cacggaggac aacgtcggca tgetcaagct cgccaaggag gccggcagca tcctgttcga 360
ctaccggatc ccgct 375

<210> 7522
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-013-Q1-E1-E6

<400> 7522

actgcacgtg gtctggaaca tcggcggtag gctgacaatg ctcggttgcg tcagtagcat 60
cgattggctc tgcacgggtg gcgtctacga agataggaag acgtatgggc tgctgatcgc 120
tgctgccctc ctgcaaggcg cttcggtcgg atgcctcgtc aagctcgccg tggaatttga 180
tccaagcatc ctggtgacgg cattcgtggc gactgccatc gcgttcgcgt gcttcaccgg 240
cgcggccaat ttggccagcc gcagggatta cctctacctg ggtgggctgc tctcgtcggg 300
gctctccatc ctgctctggc tgcagatagc cggctccatc ttcggccact ccgcatccag 360
cttcatgttc g 371

<210> 7523
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-013-Q1-E1-E7

<400> 7523

cacacagaag cggcggcggc ggagcaaacg caggcgaagg cgaggggtgtg agggaaggag 60
caccagccat ggtgcacgtc aacttctacc gcaactatgg taagacgttc aagaaaccaa 120
ggcgtcctta tgagaaggag cgtcttgatg ctgaactgaa gctggtcggt gagtatgggc 180
tgaggtgcaa gcgtgagctt tggaggggtcc agtatgcact gagcaggatc cgtaatgctg 240
caaggcactt gtcaccctt gacgagaaga acccccgctg tatctttgag ggtgaggcgc 300
ttcttcgccg catgaaccgc tatgggctgc ttgctgaggg tcagaacaag cttgattatg 360
ttcttgccct caccgctg 378

<210> 7524

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-013-Q1-E1-E8

<400> 7524

cccacgcgtc cggatcttgc ttggatttga tctgacatca tcattctgatc cgcgtgtccc 60
attcttctcc ctcccaacgg ctgcaggggtg gtgatcagtt cgctggacct ctgaagccca 120
aggccaactg catgcgcgcc caagccaaga cgagaactgc acaaggaaac cctccaccac 180
catcaacaca gctagcgaac tgagctgcag agggggccata aaatgtaatg taaccaacct 240
ctttcagagc ttctgctgac gtgtccagtt actatataca tacatacata cgttaacggt 300
gtactgtgtg tcttgttgta aatgtcccc ctgcgaggtg ttgccgattt tgtaagctac 360
gtacgtaact actacgctcg gcatcagctc gtgcatgtca ccttgtgcaa gtgcaacaca 420

<210> 7525

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-013-Q1-E1-F1

<400> 7525

accacgcgt ccgcccacgc gtccggggcga ggttgaggga ggtcgcgggc aacatcgaca 60
ggcggaacgc ggaccctgcg ctgaagaacc ggacggggca ggtggaggtg ccctatacgc 120

tgctcaagcc gacggcacag cccggactgg tgctccgtgg catacccaac agcatcacccg 180
 tttgagcagc agagcgccgt cggcagctgt cagctgtgta cagtacagaa taataagggtg 240
 gtcgtgtttg gcgctatctc caccacataa acgtgaaaat gttttttttt gaattatatg 300
 gacatgcagg gccgcagccc gtaagcctgg cccagtttc gggtttctgt tttttttttt 360
 tttgcctcga tctgggtg 377

<210> 7526
 <211> 373
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-013-Q1-E1-F11
 <400> 7526

aaattcccaa ccggcaaagg ctaagcccgg aagattaact tccgccaaagg tgaccacggc 60
 caacacccca aacttgggtt caacttacgg aatccgcacc atcccaacct tgctcatctt 120
 caaggccggc aaaaagaagg aaaccttcac cggcgccctc ccaaattcaa ggctcacaac 180
 cctcatcaac aattacatcg gtagttcatg accatgccat gccatgccat gcatacatgc 240
 atcgacgact aaccacatat gtgtatctct agtacccttt gcatacggga tatgatcaat 300
 tcaagcagcc agccgtctgc tactgctgtg ttatatatac catacctcca tgcgaatcc 360
 agagtacatt aat 373

<210> 7527
 <211> 169
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-013-Q1-E1-F12
 <400> 7527

gcatccgctc acgcgtcggc ccagatctca gttaaaaaaa attataacta ttggaaatag 60
 gagaccagga aattagttaa gctcgcacgc aagccatcgg aaaaggcaag atgcggagcc 120
 catgggggtg aggcgggctg gagcacttgg atctgattcc cggcatccc 169

<210> 7528
 <211> 419
 <212> DNA

<213> Zea mays
 <223> Clone ID: LIB189-013-Q1-E1-D7
 <400> 7528

agcagcttct gcttgctctg gggggaagga gagagagaga gagcgagaga gagatctagt 60
 agagaggcta gtaggtgggtc ctccaacgaa gatgttggcg gtgttcagcg ggcaggtggt 120
 ggaggtgccg gcggagctgg tggcggcggg cagccggacg ccgtcgccca agacgaaggc 180
 gtcgcagctg gtggggcgct tcttgccgc gtccgagccg gccgtgtccg tgcagctcgg 240
 cgaccacggc cacctcgctt actccacac caaccaggcg ctctccgcc ccaggtcggt 300
 cgcgccaag gacgaggtgt tctgcctgtt cgaaggggtg ctggacaacc tgggtcgtct 360
 gagccagcag cacgggctgt caagcaaggg cgccaacgag gtgctcctcg tcatcgagg 419

<210> 7529
 <211> 365
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB189-013-Q1-E1-C3
 <400> 7529

acccacgcgt ccgatcaagc acggccgcga caacgacaaa gcgaagctgc tctgtggcgg 60
 tccagaaaca ctttctggg tctcttcgca cagcgacaag gcctaccaca acggctactg 120
 ggtccaaccc accgtcttca caaactgcac cgacgacatg aaaattgtgc gcgaagagat 180
 cttcggcccc gtcattgtta tactcacgta taagactgtt gaggaagtcg tcgagcgtgc 240
 aaacgccacc gacgtgggtc tcgcggcagg tgtcttcacc aaggatctta atctcgcgca 300
 taaagtcatt gctcagcttg aagctggcat cacctgngtt aacacgtggg gtgagagtcc 360
 ggctg 365

<210> 7530
 <211> 267
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-013-Q1-E1-C5
 <400> 7530

gacccacacg tcaagtgctg ctctagggcg atagcagctc agtgaggcac ggtgatagag 60
gctgcatatc atgattggag caagatcatc aacgtgccat cggaagatcc tgtcaacgca 120
atgcttgttt aatttcaaga tcgataggat cactaggtat ctacctagat aaacgagatt 180
gaacaaatat catccttgag cccggattta catcatacaa catcatatca gtgctgtgta 240
ctcgatccac aattaatgtc gctacat 267

<210> 7531
<211> 122
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-013-Q1-E1-C6

<400> 7531
aaaaaaaaa aaaaggaaaa aaaaaaaaaa aaaaaaaaaa gaaaaaaaaa agaaataaaa 60
aggttaaaaa agggatgata atcgttgcat cggaaaggta gtttcaacgg tatgctggtt 120
tg 122

<210> 7532
<211> 378
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-013-Q1-E1-C7
<400> 7532

cacagatatt ttggtttgga gcctaataca gtgacatttt tccaacaggg tactattcca 60
tgtgtatctc atgatggaag atttattatg gagacacatc ataaggtagc aaaggctccc 120
gatggcaatg ggggagtata tgctgctcta aaatctaaaa ggttgctcga tgatatggct 180
gcaaaaggta ttaagtatgt agattgctat ggagttgata atgtattggt ccgtgttgca 240
gatccaacat tctaggata cttcattgac agaggtgtat ctgctgctgc taagggtgtc 300
aggaaggcat atccacaaga gaaagttgga gtatttggtc agcgtggaaa ggggtggacc 360
ctctctgtag ttgaatac 378

<210> 7533
<211> 387

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-013-Q1-E1-C8
 <400> 7533
 acccacgcgt ccgcacctcc aaccatgggt aaagagaagt cccacatcaa cattgtgggt 60
 attggccacg ttgactctgg caagtcgacc accacaggac acctgatcta caagcttgga 120
 ggcattgaca agcgtgtgat cgagagggtt gagaaggagg ctgctgaaat gaacaagcgg 180
 tccttcaagt acgcatgggt gctcgacaag ctcaaggctg agcgtgagag aggtatcacc 240
 attgatatcg ctctgtggaa gtttgagacc accaagtact actgcacggg cattgatgcc 300
 cctggacacc gtgacttcat caagaacatg atcactggta cctcccaggc tgactgtgct 360
 gtccttatca ttgactccac cactgggt 387

<210> 7534
 <211> 373
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-013-Q1-E1-C9
 <400> 7534
 cacacgcatt ccgcggacgcg tgggcggacg cgtggggcag gatggggcaa ggaagggcgg 60
 tggctccgtg gttgacagtg gcctgcgcgt cgtgaggtat atgagcgata agtcgatggg 120
 tatcgccacg atctgcatta cgttgtgctt gcatgtgttg aatgggacta ggctcttggt 180
 aacagcttga gagtgtactt gtttgggttt cctatTTTTT gcacattgtt tgtgtaaaac 240
 tgtaggactc atactgaaac tgtaaatcca aaaggaatgg aaatcataga cataagatca 300
 attgtgctgt acaattctgt tttatgccta tatacttgag gtctgaacga ctttagtgag 360
 agagttgttg atc 373

<210> 7535
 <211> 243
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-013-Q1-E1-D11
 <400> 7535

gacgcgtccg cactccagcg cctctaccct cctcgctgcc tcactccctc tgaagggtccc 60
agatccttcc ggttacacaa acccgccggc accaatggct tctggtcagc tcgcttgac 120
ctacgccgcc ctcatcctca ggcactacgg catcgccatc accgccgaga cgatcgccac 180
catcgtgaat gcggctaata tcaagggtcga gtcctactgg ccggcgctct tcgctaagct 240
cct 243

<210> 7536
<211> 411
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-013-Q1-E1-D12

<400> 7536
acctgcagca ctctgttaaa tttcttttga gcatgggtgt ctttgaagca tgacaatggc 60
tgctcttagg tttgggattg ccaccatctt ctgggacaaa gagggagtgg aggatgattg 120
atctgtcggc agtctgatgg ggatgaatta tacgaggtct tcaacgctga cacaaagggc 180
taatgaaaca aactcgaatc cagtgattat aggcgctccg cacggaccat atgattcatc 240
tctcgttga catgtagcta caagaatggg gtcagtgggc ggttgctgcc gcaactaaaa 300
gtccattcag tgtggatgtc agttgggcta cgctatctaa gaataaaaag tttgaggaac 360
aacgagcatg ttgccaagta gtttcttaag tataagttac tgcgtctagt t 411

<210> 7537
<211> 378
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-013-Q1-E1-D3

<400> 7537
acggacgcgt ggggtggattt ctaatatatg ggacaagtga ttttgtaact gtacgtaaaag 60
aggtccacgt taggactcgg agagtgcgat tgcttggtt agagggggca ggcaaaacat 120
ccctgcttaa agcaatgtta ggacaagtta aagaaagaaa tagcactgtt cttgaatgca 180
tacatgtcga tttgcatggc aagggaatat caaatggatt gtgctacata gattcgacaa 240
cggtaaaact gcaggagcta cctttggagg ttgggcgggt caaagaagaa ctgttggttag 300

3275

gactccatga tatcagcagg aagactgacc ttgttattgc ggtgcataac ctagcacacc 360
gaattccaca gtatcaac 378

<210> 7538
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-013-Q1-E1-D4

<400> 7538

cggccaaggc gtccggccac gcgtccgcc acgcgtccga tccttacaga gagacacacc 60
cagcgcgcga gatattctaca tcgatcatca tcaccagcga gcgagccggc cgagcagcac 120
cgatggcggc gtacatgcgc gtgacgcacc gcgacgagga aggcaagaag gtgacggaga 180
agatgccggt cccggagacg cggcgcccgg acacggccaa gcacttcgag cgcaagctgg 240
aggagcaggg cctccaccgc ttcgagcggc acccggcgaa cgcgccccgg ggcgtgggca 300
tcggcgcccc gcgcgccaaag tccgggcgcg gcggcaagta cacctgggag ggccccggca 360
gcgtcgtcga gggacagctc aaccgcgcgc gcccgccatc gaccccaa 408

<210> 7539
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-013-Q1-E1-D5

<400> 7539

cggacgcgtg ggggaagaac ttttcaagaa gcggacaaag acgaacaaac agttactacc 60
atcaatcgat cacaatcaca tgatggaagt aaaccctcaa acaaagatgg caacagggct 120
gatgaaagat ctggaaatta caattcagaa gataggaatg gtccagggtg aagctccagg 180
aacaatccca ttcaggttga tgtaaattta acgaaaccag taaatgtaga tggcaacact 240
ggtggtgata atgcagaggc tggcatgtct agaactgggtg aaggaaggca ccttccaagc 300
aatgaatctg tgtccaccaa tggtaaagat ttaggtgtgg gttctgcaga caatgggcaa 360
cctcaacgaa tc 372

<210> 7540
 <211> 382
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-013-Q1-E1-D6

 <400> 7540
 cggacgcgtg ggcggacgcg tgggctcgtg cgcctcgtgg attcgtgggt cgcgactcgc 60
 gaccagacga caaacgtcga gagggggccga tcgtgatcga gcagcgatgt cgacgtcgcg 120
 gagggcgaca ctgctcaagg tcatcgtcct tggcgacagc ggggtcggga agacgtcgcct 180
 gatgaaccaa tatgtccaca aaaagttcag tcagcagtac aaagctacaa tcggtgcaga 240
 tttcgtcaca aaggagggttc tgatcgaaga caggctagtc acgttgcaga tatgggacac 300
 cgcgggggcag gagagattcc agagtcttgg ggttgcattc tacagagggg ccgattgctg 360
 tgtgctcgtc tatgatgtta ac 382

<210> 7541
 <211> 420
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-013-Q1-E1-C11

 <400> 7541
 ggtccaccac ccttcggag aatgtcccgg ttgttaaccc caccttcaaa accaaaaagg 60
 gggcccccaa taaggatatc aaaaaaccta taaaggctgc ttccaagggt caactcaagg 120
 gtataatggg ttatgtggag gaggatctgg tttctaccga cttccttggg gacagcaggt 180
 cgagcatctt cgacgccaag gccgggatcg ctctgaacga ccacttcgtc aagcttgtct 240
 cgtggtacga caacgagtgg ggctacagca accgcgtcgt cgacctgatc cgccacatgt 300
 tcaagacca gtacagggtt tccccctgc ttctcatgga tggttgctgc ttgtgtatgc 360
 cgacaataaa tgtggatgtc gccaggttca tgctgagtct ggacatgttt tgcacttttg 420

<210> 7542
 <211> 363
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-013-Q1-E1-G8

<400> 7542

cgagttcac gcttggtga cgaccgacc ccatcggtc tagccctccc tccgacactc 60
cgatccatta ctgctatgg acgcggggg cggcgaccag ctaagcctgg ccgcggtgcg 120
cgacgcgctg gtgcggtgg aggactccgt ggtgttcgcg ctcatcgagc gcgcccggca 180
tccgcggaac gcgccagcct acgcgcccgc cgccaccgct ggagaacatt cgctcgtgga 240
gttcttcgct cggaagcag aggcctcaa cgcaaaggct ggacattatc aaaagccaga 300
agatgttcca ttcttcctc aagatctacc ctacctctc ttctctaca agccttcccc 360
aaa 363

<210> 7543

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-C5

<400> 7543

acggacgcgt gggcgatctc gtttcaaate catccatcct cgtttcctcc gtcccgcagc 60
atctcaaccc catggccaag atcaagatcg ggatcaatgg gttcggcagg atcggaaggc 120
tggtggccag ggtggccctg cagagtgcg atgtcgagct cgtcgccgtg aacgaccct 180
tcatcagcac cgactacatg acctacatgt tcaagtacga cactgtgcac ggacagtgga 240
agcaccatga agtcaagggtg aaggactcca aaacccttct ctttggtgag aaggaggtg 300
ctgtgtttgg ctgcaggaac cctgaggaga tcccggtggg ttcggttggt gctgaatatg 360
ttgttgagtc aactggtggt ttactgacc aggagaaggc tgca 404

<210> 7544

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-E9

<400> 7544

caaattccag gtttaataac gaaccgtggt aacttaccat aacaacaact caattcctat 60
cgaattcctt cctatcgaat tcctatagta aaattcctat aggatagaac gtacacaggg 120

tgtacacatt atatatgaat gaaacatatt cattaactta agcatactcc tttttttatt 180
 taatgagttg atattaatta aatatctttt ttttttagat ttttgcaaag gtttcattta 240
 cgcctaattcc atatcgagta gacctgtcg ttgtgagaat tcttaattca tgagttgtag 300
 ggagggactt atgtcaccac aaacagaaac taaagcaagt gttggattta aagctggtgt 360
 taaggattat aaattgactt actaaacccc g 391

<210> 7545
 <211> 335
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-002-Q1-E1-C11

<400> 7545
 agctctggtg gctgatgaga tagcggagca ggctgaattc ttctccttcg gaacgaacga 60
 cctgacgcag atgacctttg ggtacagcag ggatgatgtg ggaaagttca ttcccgtcta 120
 tcttgctcag ggcatactcc aacatgaccc cttcgaggtc ctggaccaga ggggagtggtg 180
 cgagctggtg aagtttgcta cagagagggg ccgcaaagct aggcctaact tgaagtggtg 240
 catttggtga gaacacggtg gagagccttc gtctgtggcc ttcttcgcga aggctgggct 300
 ggattacgtt tcttgctccc ctttcaaggt tccga 335

<210> 7546
 <211> 345
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-013-Q1-E1-F6

<400> 7546
 atgggcattt gtggagaaca cggaggagag ccttcctctg tggccttctt cgcaaggct 60
 gggctggatt acgtttcttg ctccccttc agggttccga ttgctaggct agctgcagct 120
 caggtgcttg tctgaggctg cctcctcatt ggcaaccgga ttgcctgctg ctggtggatg 180
 tggatgataa cagtattatt acagagccat gctatgtgaa cattactagt agcagtgttc 240
 ataaaagcta caatcccatg tccttttttt cccagtcac gtaaaacttc caaactgttc 300
 catggttcaa aactctgttc ttcaatacat catcaattat cgatt 345

<210> 7547
<211> 312
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-015-Q1-E1-G8

<400> 7547

gccaaagttgc tgagaaagtg ttcgccaatg tgggcaagac tatcgggtac aaagttggaa 60
caatgattga gatccccagg gcagctctgg tggctgatga gatagcggag caggctgaat 120
tcttctcctt cggaacgaac gacctgacgc agatgacctt tgggtacagc agggatgatg 180
tgggaaagtt cattcccgtc tatcttgctc agggcattct ccaacatgac cccttcgagg 240
tcctggacca gaggggagtg ggcgagctgg tgaagcttgc tacagagagg ggccgcaaag 300
ctaggcctaa ct 312

<210> 7548
<211> 427
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-009-Q1-E1-G9

<400> 7548

acagagatgc aagcccgggc catttttgaa gctgctatag caatgaccaa ccaaggtggt 60
caagtgttcc cagagataat ggttcctctt gttggaacac cacaggaact ggggcatcaa 120
gtgactctta tccgccaagt tgctgagaaa gtgttcgcca atgtgggcaa gactatcggg 180
tacaaagttg gaacaatgat tgagatcccc agggcagctc tgggtggctga tgagatagcg 240
gagcaggctg aattcttctc cttcggaacg aacgacctga cgcagatgac ctttgggtac 300
agcaggggatg atgtgggaaa gttcattcnc gtctatcttg ctcagggcat tctccaacat 360
gaccccttcg aggtcctgga ccagagggga gtgggcgagc tgggtgaagct tgctacagag 420
aagggcc 427

<210> 7549
<211> 394
<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-G4

<400> 7549

agccaacat gaccccttcg aggtcctgga ccagagggga gtgggcgagc tggatgaagtt 60

tgctacagag agggggccgca aagctaggcc taacttgaag gtgggcattt gtggagaaca 120

cggtggagag ccttcgtctg tggccttctt cgcgaaggct gggctggatt acgtttcttg 180

ctcccccttc aggggttccga ttgctaggct agctgcagct caggtgcttg tctgaggctg 240

cctcctcggt ggcaaccgga ttgcctgctg ctgggtgatg tggatgatcaa cagtattatt 300

acagagccat gctatgtgaa cattactagt agcagtgcc ataaaagcta caatcccatc 360

tccctttttt ttcagtcatg taaaacttcc aaac 394

<210> 7550

<211> 423

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB189-006-Q1-E1-G6

<400> 7550

agcggacgcg tgggggggaac atcgaggaca ttgtaagtga attatgtgct gagacgggag 60

ccaaccagga ggatgccctc gcgcgaattg aaaagctttc agaagtaaac ccgatgcttg 120

gcttccgtgg gtgcaggctt ggtatatcgt accctgaatt gacagagatg caagcccggg 180

ccatttttga agctgctata gcaatgacca accaggggtg tcaagtgttc ccagagataa 240

tggttcctct tgttgggaaca ccacaggaac tggggcatca agtgactctt atccgccaag 300

ttgctgagaa agtggttcgcc aatgtgggca agactatcgg gtacaaagtt ggaacaatga 360

ttgagatcnc caaggcagct ctgggtggctg atgagatagc ggagcaggct gaattcttct 420

cct 423

<210> 7551

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-016-Q1-E1-H7

<400> 7551

aagaattaca ctcaagggca aggtgacaat tatcgccaag cctggagtga agttggagat 60

tccagatgga gacgtacttg agaacaagga tgtcaatggc cctgaggatc tttaagcaat 120

gtttgtcatc accagttttt cccaaggaca tgtcacagga actgccaagc ctagtcactc 180

ctactgagct ctatatatttg taattttcat gtgcattccg attccgctgt gagggcatg 240

ttaacccccgc tagaaaataa ttgtaatctt ctttgctgcg tctgtacttc tgtttttggt 300

cgccaggacg tatatatttta ctgaaatgat actccgaaga gc 342

<210> 7552

<211> 364

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB189-028-Q1-E1-E5

<400> 7552

accacgcgtc cgcccacgcg tccgcgacgt ccatactgca cagccttgaa gggatgcctg 60

acctggactg gccgaggctt ctgaacctcc agtcctgcga cggctccttc ttgttctctc 120

cttcggctac cgcttacgcg ctgatgcaaa ccggtgacaa gaagtgcctc gaatacatcg 180

acaggattgt caaaaaattc aacgngggag tccccaatgt ntatccggtc gatcttttcg 240

agcacatctg ggttgtggat cggttggagc gactcgggat ctcccgctac ttccaacgag 300

agattgagca gtgcatggac tatgtgaaca ggcactggac tgaagatggg atttgctggg 360

ctag 364

<210> 7553

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-002-Q1-E1-C1

<400> 7553

agcctgacca aggctaggaa gtacaccttc ttcaagccca agttcatctt ctacgccacc 60

tacctgtccg agaagatcgg gtactggagg tacatcacca tcttcaggca cctcaaggcg 120

aacccggagt accaggtgta ccccatcttc aagtatttcg agaactggtg ccaggacgag 180
 aacaggcacg ggcacttctt ctctgccctg ctcaaggctc agccgcagtt cctcaatgac 240
 tggaaggcca agctctgggtc acggttcttc tgcctctcgg tgtatgtgac catgtacctg 300
 aatgactgcc aacgcactgc attctatgag ggaattgggtc tggacaccaa agaattcgac 360
 atgcatgtga tcattgagac caacgcacaa cggcg 395

<210> 7554
 <211> 439
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB189-019-Q1-E1-G7

<400> 7554
 accttcaaca agagttgctc ttcggaatga cagttatatg ctccatctga tcctaccaag 60
 caaagttgat ccattgggtca atctcatgaa agttgagaag gttccggatt ctacctatga 120
 tatgattgga ggccttgacc agcaaattaa agagatcaaa gaggtcattg agcttccaat 180
 caaacatccg gaactgtttg agagccttgg aattgcacaa ccaaaggggtg tccttcttta 240
 tggacctccg ggcacaggaa agacattggt ggcacgtgcg gttgctcatc aactgactg 300
 caccttcacg aggggtgtctg gttctgagtt gggtcagaag tatattggtg aggggtcccg 360
 gatggttagg gaactctttg ttatggccan ggaacatgca ccattcatta tatttatgga 420
 tgaaattgac tctatcgga 439

<210> 7555
 <211> 410
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB189-032-Q1-E1-A3

<400> 7555
 aggcgtagcc tcatgagggg gagactcgtc aattcgccaa actccttctt catggatggt 60
 aattgcaagg ggtgcttcac cataaccacg tgttttcagc ccccccaaa cggttggtgt 120
 gtgccctggc tgcaaaactg tcctctgcca accacagga ggaaaggcaa ggctcactga 180

gggctgctct ttccgcanga agggagacta nagecggatgt ggtcttcaag ttttgctcta 240
 tgccagatac tagcgtcatg aactgccttt agctaagatt ttccataagt tgttctcgag 300
 cagctatgtg ttgcatgttg gctacttcca aacttatatc tggtttggtt tggattgtga 360
 tgaactaatg gctctttgaa tttatattat gatgttgacg ataattggtg 410

<210> 7556
 <211> 353
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-G3

<400> 7556

agaaccggac aggcaagagc tgccggctgc gctgggtcaa ctacctccac cctggcctca 60

agcgtgggag catgtctccc catgaagagc gactcatcct agagctgcac gctcgggtgg 120
 gaaacaggtg gtccaggata gcacgccgct tgccagggcg cactgacaat gagatcaaga 180
 actactggag gacacacatg agaaagaagg cacaggagag gaagaggaac atgtctccat 240
 cgtcgtcctc gtcttcgctg acttaccagt caggctaccc agatactcca tcaaccattg 300
 gagttgaggg acaggagctt catggtggca gtggctgcat cacaagcatc ctg 353

<210> 7557
 <211> 331
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-001-Q1-E1-B1

<400> 7557

gatcacatca aacagattaa atatcatcag tgcaggagtg ccatcttgat cacagtcaac 60
 acatagtatt aagaaaatgg gcatggtaac agcctaacac atggcagttc cttcacagga 120
 atttccacga acacaaggca cagccagca aatcgaccaa ctacaccga agtttccaac 180
 taacagcata gaggaattga tcaacagaac agcgacgcc cttttagaga tggaaagggg 240
 gttagggttt taaacgttcc tggtcgcgc cctggccacc gggggctcac ttggccagca 300
 tctgcgcggt agccgcctcc tgctgctgt g 331

<210> 7558

<211> 332
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-001-Q1-E1-B11

 <400> 7558

 tttgaaagca aagaattatt aatgtctctt atttatctca tctggtcagc tgattcgacc 60
 cttcactagc aaaatgtatg caagatgaaa ccgttctcaa gaattttcaa gacgaagggtg 120
 aatacatcat acacaagaga ggggtgaagt ttcagttata caagacttct tcattctagtt 180
 tctttaagta caacagatca cttccattcc ttctctctac accaaaagcc atgtttccca 240
 cgtacgacga ctgcccaact cgccagcagc gatgtgcaag cacaggtgca gcagctacta 300
 atagccgatg tccttgctgt cgaacacgaa gt 332

<210> 7559
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-001-Q1-E1-B7

 <400> 7559

 tagggataag ggctatgacg gtattgtgct cgagtcctgg tcaagatggg ctatttatgg 60
 tgtgctggat gaccaagagc tacgttacat ggcacttgaa tttgttaagc agctgggaga 120
 ggttttgcat tcagtcaatt ccaaaatcaa gtagccacca tttggaatta atttatgtta 180
 ttccagctcc aagaatgcaa aagctcaata ataaggactt tggacccaaa gatctcatgc 240
 atctggctga cactgtagat gggttttctc ttatgacata cgacttctca ggacctcaga 300
 atcctgggtcc cagtgcacct ctgaagtgga tacatcattc tttagcagca cttccttcag 360
 caaaagggtc ctctcatagc aattcacatt cacggatgat attcctt 407

<210> 7560
 <211> 267
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-001-Q1-E1-C10

 <400> 7560

gggatttgc accacgagga agagtaccac cctcaggacc tagccatccc ccacccttgg 60
 tggcgatgac acctagcatt gttggggatt tgctaccacg aggacctagc catccaccac 120
 ccttgaggga aatgatcgag tatagcaatg atgtcctcgg tgcaaatgat aaacttgttg 180
 gtaatgtaag gatgaatata taaggataat gtgatgtaac ttatagacaa taacataaat 240
 aaaaagaata tcctatgttg tttaaaa 267

<210> 7561
 <211> 356
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-001-Q1-E1-D1
 <400> 7561

gtccttttct aaaagaaaaa aaatacagtc gcatctcgcc tccagcaggg tgagttcgcc 60
 tcggcagggg gtggcatacc atggagagct cgtcgccgctc agtgccgttc ccgctgctgc 120
 aggcgcgggt cgagagcacc taccgcgcct gcaccatccc ctaccgtttc ccctccgaca 180
 acccgcgcaa ggccaccct gtcgagatcc aatggattga cctctttctc aactctgtcc 240
 cgtccttcaa acagcgggcg gagaacgacc ccaccgtacc cgatgcgccc gcgaaagcgg 300
 agaagttcgc gcagaggtac acgtcaatgc ttgaagagtt gaagaagaat ccggag 356

<210> 7562
 <211> 231
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-001-Q1-E1-D11
 <400> 7562

cgggccgacc cacgcgtcca cccagtcgctc cgagtagtca ttcattgtacg catggctgat 60
 cgatgagctt aaggctggta gtaacattgg tatcactatg tggatgtttc tgaggaactt 120
 ttagaacagc acggtctatg gtgcagttgt tgatggtgct gtcattcagtg acatgatcac 180
 tggatgata catgctgact gtgatgtcga tagtactgtc tctatcattg g 231

<210> 7563
 <211> 442
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB189-001-Q1-E1-D3

<400> 7563

cggcttagta atccggctcg acncacgcgt cagcaatgat ccaaaaacgt atgtggaaga 60
agatgttttt gttacagatg aatctgggac taagaaaagg atacggctag aggacaatat 120
tgtgcggtgg agaaccatta ggaatgcaga tggcactaca tcttgtgaaa gcaatgcacg 180
ctttgtaaaa tggaaggatg ggactatgca gcttctgatt ggcaatgagg ttcttgatat 240
atctgtacat gaggcgcac atgaccagtc ccatctgttt ttgaggcatg ggaagggaat 300
tctacaatca caaggaaggc ttttgcacaa aatgcgattt atgccatcct ccttgtcttc 360
aaagtcgcat cgcttattaa ctgctctggt tgattctcag aataagaaaa ctgttaagat 420
gcaaaaatgg tttgagacta ag 442

<210> 7564

<211> 278

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-001-Q1-E1-D8

<400> 7564

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaag gaggaagctc 60
aaaaggataa aaaacttagg tacccgttca tgcgacttca tacttcgtta atagtgttaag 120
caagcattca attcattgta cgggtggcttc acaagtttac ttcattgggat aatctctttg 180
gtaagccatc ttaggcgcct tcacagagat ccccttttcg caagctgatg taataacttt 240
tatgttcgca ccattgggac ttccaacat ttgcccac 278

<210> 7565

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-001-Q1-E1-E12

<400> 7565

gggccgaccc acgcgtccag atgagatgac ccaatcagga gcacgcggat ttcaagttca 60

agcaagagct ctggatggtc attagcatgt cctctgttgc ggctgtgaag ttcttctca 120
 tgctctactg ccgaacgttc aagaatgaga tcgtgagggc ctacgccag gaccatttct 180
 tcgacgtaac cacaactct gtccgcttg tctcggcgt gctcgtgtc cggtaacaaat 240
 ggtggatgga ccctgttggc gccatactga tcgcttgta cagcatcac acgtggggc 300
 gaacgggtgt ggagaacgta ggcacactga taggcaagtc ggcgccgga gactacctga 360
 cgaagctcac gtacttgatc tggaaccacc atgaggagat ccagcacatc gacacgggtgc 420
 ggcct 426

<210> 7566

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-001-Q1-E1-E9

<400> 7566

ttttgctgtg cacaacaatc tcagctgaca gggcggtac accgtctcac agtacattcc 60
 gggatgacac catacataat gaggcaacaa ggatgtacac attatttgcg gtaacagat 120
 atgaccatcg ggcgcagctc tagaggcttg cagggtgtct cgtggtgcaa cataatcaga 180
 gtgcttgcca actatcttat aaattccatt cacaagacgt ctatggtcag gatagtcatt 240
 gtacaggcta tgccattgct tcaagtgcac ctctagcacg agatcctgct ttctaaatat 300
 ggcgaaat 308

<210> 7567

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-001-Q1-E1-F12

<400> 7567

cccgcccgga ccacgcgtc aacttactcc aggacgtacg tacgtacctg gatcgatcca 60
 tcgatcgcta gctagctgac gaccatggcg tccctctcct ctgcgccat caccgccct 120
 tcttcacgg tcgcgccgc tcgcgcagt gccagcagga ggtccttcac cgtgcgtgcc 180
 tctctccgca aggccactgc caccgccgc gtggacgttg ccgccagcgt cctgcgtgcc 240

ggcggcgcg ccatggccca tgaggtgctg ctgggcacag gcgacagcgg gctcgtcttc 300
caggccagcc atttcacctg tcaacggcgg cgacactatc accttcagga acaacgccgg 360
cttcccgac aacgtcgtgt tgcacgaaga cgacgtgccg agcg 404

<210> 7568
<211> 87
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-001-Q1-E1-F6
<400> 7568

agcccacgcg tccgcggacg cgtgggcgga cgcggtggcg gacgcgtggg aaaaaaaaaag 60
aaaaaaaaa gagaaaaaaaa cataaaa 87

<210> 7569
<211> 312
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-001-Q1-E1-F7
<400> 7569

atcgccagca tgcacgacgc ggactcgtct gaaggtgccca cgaccacgac agaggtagtc 60
gagccctctg aggtcaggac agagagcgcg ccgtggaagg attagatagt tctgtatgca 120
aggattatgc cctgggtgtgg tgtatgagca ctggatgtaa cgaaagtacg aaccagagcc 180
aggatagagg aatacagcgt ttgataagaa cactggtgtt aaaagtgtag atctctgggt 240
tgggttgtgc tgataaattt ttgtaggcta tagccatcca atgaaaaatg ccatctgcgc 300
tttcgtgcaa aa 312

<210> 7570
<211> 207
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-001-Q1-E1-F8
<400> 7570

cgaccacga gtcagctcac gcgtctcaac aacactgtct cgtctcactg tgcttcgacc 60

aattgtcgtg tacgccagtc ttctcttgtc tggacacctc tgtacgcctg gcacgctggc 120
 atacagctgt ctgcacgctt tatggcctgg tgtgcagtag tgagcctgtg cttctaccac 180
 tactactatt gatctgcagg ttggcac 207

<210> 7571
 <211> 434
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-001-Q1-E1-F9
 <400> 7571

cggtctagaa atccccgggcc gacccacgcg tccacggacg cgtgggtgcg gcctgggtcc 60

atztatgatg caaatgatag tgcacagttt gcagaactgc tgactcaagg tgaactaaca 120
 cgtcgagcat gggcgaaaga tgtgcaggtg atgaatgaag gcccggtca catcccaatg 180
 cataaaattc ctgaaaacat ggagaaacag ttggagtggg gtaatgaagc gcctttctat 240
 acattgggtc ctttgacaac tgatattgca cctgggttatg atcacatcac ttcagccatt 300
 ggtgctgcca acattggagc tcttggcact gcacttcttt gctatgtaac accaaaggag 360
 caccttgggt tgcccaatcg tgatgatgac aagactgggtg taatatacta caaaatttct 420
 gctcatgctg ctga 434

<210> 7572
 <211> 432
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-001-Q1-E1-G8
 <400> 7572

gaattccccg ctcgaccac aagtcagccc acgcgtccga gatcctgcag aggtccaata 60
 taacacggaa gctagaagtg ttgaacagga cccaccaga gatcctgcac aggtccaaca 120
 taacaaggaa gctagaagtg ttgaacatga cccaccaga gatcctgcag aggtccaaca 180
 taacaaggaa gctagaactg tcgaacagga cccaccagc aacacagaag tgtggaagcc 240
 tgacaataag gctacaacta cagagcacga gtccgtgagc gctttcatag cattgagatc 300
 taatggggat tctacagatg tggaggcggc accaggcgat accttgatga tgcagggaca 360

ggagtcggaa gccacaatgc aacaagcatc ccacgcctgt tgaccaggcc cagcctaact 420
atgaacctga aa 432

<210> 7573
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-001-Q1-E1-H10

<400> 7573

accacgcgt ccgggaggcc gagctcgtag aggcgctcgc caacctcgag ggcgagaatg 60
aggaggctgt caaggcgctc gacgcccaga tcgcctcgct cagtgatgag atcgtaaga 120

aggtgctccc atccgcgtga tgaaacaaa ccggccctgc cttatcctat gactatagtt 180

acatgaacat cataaattaa tgataatddd gaagaaattg gccgatgact ccgacactgt 240

actcatgaaa gattattgga tgggctgtgt ccaccgcctg tgttgggcgt ggattgttgt 300

agacttgcag tgatcttgct cgataagctt gtacagttca gtacagacac acattgaaac 360

catatagata caggataaat 380

<210> 7574
<211> 237
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-001-Q1-E1-H11

<400> 7574

acaaaaaat ccaaaaagaa aaaattcata aaaaaacaaa aaaaaaaaaa aaaaacaaaa 60

aaaagaaaaa aaaaagcaa catggcggca cacatcaaaa tgatacaagt cttaatatag 120

cggggcggcg gctctaaagg tctatggcta aggttcctt gctttgcatg attgactgct 180

tctacatagc tgcttaactt caattcacgg gccttttttt aaaaagtcg tattgga 237

<210> 7575
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-001-Q1-E1-H2

<400> 7575

agggcacaac actggcgata tctgaggcaa ggacagttgg agaaggtgca aaagatggac 60
tcctagttac cgtgggtgaa gccagctaataa taatgtttta gagaaataat tctctcttgg 120
agactactac tactgttcta cctcagcatc accggtgctg gtgcgtgtgt aacgtgggtca 180
ctgtgggtat catcactacc ctaccctaag ccctatcaga acataagcac cccttggaga 240
tttgtgccgt ctaaataaat atagttgggt cagcgtcgtg actggaaaa 289

<210> 7576

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-001-Q1-E1-H3

<400> 7576

acgcgtcagg acagcggctg ggcctcgcca gggcgatcgg cgtcagcaac ttcaccacca 60
ggcacctgga caaggtcctg gccgtggccg cggccccgcc cgcggtgaac caggtggagc 120
tgaacccggc gtggcagcag cggacgctgc gggcgactg cgcgcaccgg ggcgtccacg 180
tcgccgccta ctgccgctg ggagggcaga actgggacgg gcggggcaac gccgtgctcg 240
actcggaggt gctcgcggag atagccaggg cgagggggaa gaccgtggca caggtggcgc 300
tgcatgggat acatgagcag ggagtgcgtg gcacgtcaa gagctacaac aaggagaggc 360
tgaagcagaa cctcgagata ttcgactggg agctgaccga tgacgaccgg ct 412

<210> 7577

<211> 416

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB189-002-Q1-E1-A5

<400> 7577

aattcccggc tcgaccacg acgtcagggg aggcgcggag cagccgcgac cgcgagaaag 60
aaaaggaagc cgacgccacg cagccatcg ccgcctctat cctctcctcg tcctctccct 120
ccccctctct ctccctgctc cacctccacc aaccaatata cacctccctc tctaaatacc 180

acttcgtccg agagcacaaa gcagggtatc ttcctttcaa aagaaacttg gctgggtgtt 240
gacgcacgca gccggcgga acctgtgctg ggagcgcaa gggctccagg aaagaatcgg 300
ccgcggtgctc gcgatcgga aggggagcgg ggcgcgtgcg cgagcactgg cacggcgacg 360
gcgacggcga cgacgagcat taagcccaac ccgggggttcg ggaaggcccc ngggca 416

<210> 7578
<211> 367
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB189-002-Q1-E1-B8
<400> 7578

agcggacgcg tgggcggacg cgtgggggagc gcggcggtgt gccgccatg cttgttggtg 60
gaaagcgcaa gctgatgata cctgcgtcac tggcgtagcg gcctgaaccg gcaggctgct 120
tctcaggaga ctgcaacatc cccggaaact ccacatttct atatgacctt ttcctcgtcg 180
ggatctacaa gtgagccctc gatgacaggg aatgttcaga acctaagagc agagacaagg 240
aggaattctt ggcggtgaaa gcacctgcag aggcagagcc acttgcagaa gcttctgtac 300
tccagagagc tacctggatt gaataaaatg atgatataa taaaccatcc ttgttacgta 360
atanaan 367

<210> 7579
<211> 357
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-002-Q1-E1-D1
<400> 7579

agccaacgag tccgcggacg cgtggggcga cgcgtgggtc tacacgggtc cgtgtcaacg 60
atgacatgct gcgcgccaca tttaaagaaa tagcttatca ggccacacag gacaatttcc 120
agaagggtc catcttccga cccttcacac atcatcataa agatctctgc gcacatcact 180
gcagccgtgg ttgcataatc ctacgagctc ggtctggcta cacgtctgac tcacaccatt 240
gacgtgatga tatatgcata gaactgcatg tacattcccg tctatcgaa ctaccgttaa 300
tgctgcgggg atcaattttg cagtaataac atatctatca acgcagatgg tactctg 357

<210> 7580
 <211> 192
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-002-Q1-E1-D8

 <400> 7580

 agcccacgcg tccgcggacg cgtgggcgga cgcgtgggga cgacgcgaca tgcgaaacac 60
 tacgtgctag ctagcatagg aaaaaacaac atgaaatcgt acaaccaacc aatccctcgc 120
 actgttttag ttgtagctg tacgcgaaac tgttcatcca attgatcaaa tgaaaattat 180
 ttttcctaa aa 192

<210> 7581
 <211> 260
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-002-Q1-E1-G12

 <400> 7581

 agaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 taaaaaaga aaataaaagt ggaggataga caagaaagca caacgttttag gtgagctctg 120
 aatgctcctt cagtctgct tctttaattc taattaaagt tcaattcagt ggccgtctgt 180
 ttgacaaggc ctttctggc ataaccctg cttatcccaa tttagccgcc tcttcatac 240
 acttcgcctt tcagcaactt 260

<210> 7582
 <211> 238
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-002-Q1-E1-G4

 <400> 7582

 agcccacgcg .tccgaaaaaa aaaaaaaga aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 aaaaaagatc aaaaaggata acaacttaa atagacataa agtaaatttg gagggcttat 120
 caactagtat cgcctctatg gagttgaccg aatgtcgctt tatcgtggtg cagtctagaa 180

agcactcctc tgtgagctac cgtacggtgc ctttaaggat gccactgttt ttgctaaa 238

<210> 7583
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-002-Q1-E1-H2

<400> 7583

agctagtcgc ccccgggcgc ccgcgtcgcc gacctccgtg tcgacagctt ccgcgcgcgc 60

ccgcccgtcg tcggactcgg cctcgcgtcg cgagctccgc gtcagcaacc ccggcttctt 120

cctcccgtc cgctaccgcg cggctctccga cgccgtctca taccgcggac acttgctcag 180

ggtcgctaaa tcgtggcccg ggtccggcga gcttgccggc atgaatgaag tctatgcgga 240

tgctgatgtg tgagtggacg ccgggaaagt gctggctgac gtgatcgagc tcctctggga 300

cttggcctca gggtcagtg cgcttgagat cgtatct 337

<210> 7584
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-003-Q1-E1-A11

<400> 7584

taccggtcca gaattcgcgg cgtcaattca cgggtcgagc caagcgtctg cacatcctat 60

tccgaaaaag ctgctccttc taaggagcca aaggcaaagg atgtcaagaa ggaggctcca 120

aaggaggccc ccaagccaaa ggtggttgag gcaccagcag aagaggaagc accaaagcca 180

aagccaaaga atcctcttga cttgctgcca ccaagcaaga tggctcctga tgactggaag 240

aggctatact caaacacaaa gactaacttc cgggaggttg ccatcaaagg tttctgggac 300

atgtacgacc cagagggcta ctctttgtgg ttctgtgact acaagtacaa tgatgagaac 360

accgtctect ttgtgaccct gaacaagggt ggtggattcc tgcaacggat ggacctgtgc 420

cgca 424

<210> 7585
<211> 340

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-003-Q1-E1-A9
 <400> 7585
 acggctcctc ctcagaaaaa caaagggaag acagctgcct acccaaccta ccagccatgg 60
 cgccacattc ttactccata gccccgtcc aaagcgagct gaacatgacg ctgtacaaca 120
 aggaggtgta cgggtgggcgg gggaccaacg gagtgaccac tctagtgaac cgagggccaa 180
 tcggcaccac ctgggtcttc tcgtggcctg tcaccgacgg gcccgccggc gccgacgcga 240
 acgtcgtcgg ccatcttcag ggcaccggcg ttcaagtcgc cacttacccc gactacatgt 300
 ggcactactc ccttgggctg gtgttcggcc agggaaccag 340

<210> 7586
 <211> 305
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-003-Q1-E1-B2
 <400> 7586
 attccctata gtaagtcgta ttattgctca tgtcaagaca acacctcatc cacccttagc 60
 tcaagtacct gcataactgt caccctggac ggcttcagtg ccacggactt ccatcggggg 120
 tgcgacttcc agggccccctg cgtcgcgggt ggggtacatcc acggcggctt ccctttcggc 180
 cggttcagcc cggcgggggta cccaagcacc gactatcact acgaaacgct ggatgctttc 240
 ctcttcact gcgcggaatc tacgtgaggt ccccgcgccc cccgttgagc ttcccaacgt 300
 gggcg 305

<210> 7587
 <211> 72
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-003-Q1-E1-B9
 <400> 7587
 acggacgcgt gggcgggacgc ataggatcaa aacaaaataa aaaaaaaaaa aagaaaaaaa 60
 aaaaaaata aa 72

<210> 7588
<211> 73
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-003-Q1-E1-D11

<400> 7588

ccaaaaggat caaacctaac ttacccttga atgcaacttc aaacccttc aaaagtgtca 60

ccaaaattca att 73

<210> 7589
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-003-Q1-E1-D3

<400> 7589

ggtcaagact atccgggtcg gccacgcgt ccaccaagg tgcgggctt cgccaagggtg 60

gacctcgagg ccggcaccgt cgacaagttc atctacggcg acggccggtg cggcggcgag 120

ccctgcttcg tgccgcgccc cgacgcccc gcgggcgccc cggaggacga cggctacgtg 180

ctgtgctacg tgcacgacga ggccgcggc gcgtcgaaa tgctcgtcgt caacgccccg 240

gacatgcgag ccgaggccgc cgtcaagctg ccgggcccgc tcccgtacgg gttgcacggc 300

acgttcatcg ccggcaagga gctgcagcgg caggcctagt gtggtgccgt tgccgtgtcg 360

tgctgctgct acctcgtcga tcacgaactc gaccaactca cgtacatata ctgatacaca 420

caacagacac tacaattacc aggcttgata ttgacttggc 460

<210> 7590
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-003-Q1-E1-D5

<400> 7590

agggtactagt ctagaattcc cgggccgacc cacgcgtcag agatctcgct cagaagagac 60

tctgaagaga taacgagctg cgcttcttcg tcctcgatca actagcttct ctgatcgctt 120

ccatatggag agagctgcgt caagctgcgc tagcctccta gcacaaagga ggtgctactc 180
 cgtggccgcg gtcgtggtga agggatgcgg gcggaaggcc gtggagaagg tggccaagcg 240
 catcatgggc aaggaggtga acaccgcggc tgctccggg gagaagacgc cgtgggtgcc 300
 ggaccggtc accggctact accgcccggc gggtgccgcc aaggaggtgg acgcccggga 360
 gcttcgcgc aggctgctca ccaagaggat cgccaactaa atcaatctag cagcagagca 420
 gtgccgctga aaataat 437

<210> 7591
 <211> 471
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-003-Q1-E1-D6

<400> 7591

gtacctagtc tagaattccc gggccgaccc acgcgtccac ccacgcgtcc gggatgaagcc 60
 gccgccgctg cagtgtccat agccaccgca ggagactgag atgggggggtt ttgtcaagac 120
 ccacaagagc aatgcatact tcaagcggtt ccaggtgaag ttcaagagaa ggccgcgtgg 180
 caagacagac tacagggcca ggataaggct gattaaccaa gacaaaaaca agtacaatac 240
 acccaaatac agatttggtg tgcgatttac caacaaggac atcacagcac aaatcatatc 300
 tgctagtata gcaggtgata tggttcttgc ttctgcttac tcgcatgagt tgccacgata 360
 tgggtctcgaa gttgggtctga ccaactatgc agctgcctac tgcactgggc ttccgtttgg 420
 tccccctttt gcacaagacc cgtggttttag ataaggaata tgagggcaat g 471

<210> 7592
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-003-Q1-E1-D7

<400> 7592

ggtacaggtc tagaattccc gggccgaccc acgcgtcaga gcttccgtga cctctgttct 60
 gctgccgcct ctgggtccaca tctctctacg ccgccgcccc gccgtccacc gaaaccgcag 120
 cgctgggaag gatcatgggg gatcggagca aggcggggga cccaccgttt tgcgcccgg 180

atcgcagcgg accgagaaga ctggcagcgg ttgcggcgcg gccttgggat acggacgatc 240
 tgcgatgtgt gcgagagcgc aacggcggtg ctcttcagtg cggccgacga ggctgcgcct 300
 tgccggcctt gcgacgagaa ggtacacatg tccaacgtgc ttgctagtcc gcatgtgaga 360
 gttgggcttg cagaccctaa taaactggca cgttgtgaca tatgcc 406

<210> 7593
 <211> 414
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-003-Q1-E1-D9
 <400> 7593

attccccgga cgaccacgc gtccaccac gcgtccacc acgcgtccga gcagccccgc 60
 gaaaacccta gtaagcaaac caccggagca gcggcgcttg cgcgggcgga gccatggcgg 120
 acgacgatta caacgaaatt gacatggggt atgaggatga gccccagaa ccggagattg 180
 aggaaggagc tgaagaagag cctgagaaca acgaagatgc ccctgatgac gtcataagg 240
 gtgagggtga agataaggaa caggaaaaga ccaagcgtga acgcaaaaaca acaaaatata 300
 tgacgaagta cgaacgtgcg cgcacccctg gtacacgagc cttgcagata agcatgaatg 360
 ctccagtcac ggttgagctt gagggtgaaa ctgaccctct tgagattgca atga 414

<210> 7594
 <211> 455
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB189-003-Q1-E1-E1
 <400> 7594

ggtcaagaat acncgggtcg agcccacgcg tccgcccaca gcgtccggag aagagcgccg 60
 tgaagaggaa gaaagctgac gctgcggcga ggcacgcggc gctgctgctc atgatggggc 120
 acgatgggtt cacctcccca gaggtgtgcc tgcattacct atttgcata gggaatgtgg 180
 attccgtggt gcttgagcgc gctctggttg aacttgatgg cggggaggta gtcaggttga 240
 tgagatatct caacaagtgg attcggaagt actggagctt ctgagaagcg cacacttgcc 300

cggaggctgt gggaaacctc agattggagc agtgtgacag cgtgccgtcg tttggagcag 360
 tggctagggc gctaggagtg ctgctggata atcatttttc acatcttggtg ttgaatgctg 420
 atgttaagga agacttgaag ggctgcggcc ttgat 455

<210> 7595
 <211> 473
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-003-Q1-E1-E6
 <400> 7595

gtacctagtc tagaatgccc gggccgaccc acgcgtcagg taatctggtc cactagcgt 60
 ccattcgacc ccaccacag ccatggctgc cgtgaccgcg gcggccgtct ctctgcctc 120

ctectctcc tcccctgccg ccgccaaggc caaggcgtcc gcgtccgct ccccgctcgtc 180
 tccatgcggc cacctccagt tcccgcggcg gcacggcggc ccgcgcgcgg tgcggctgcg 240
 cgtgcagggtg tccaccaccg agaccgcgga ggcgagccg gtcaagaagc tggagaaggt 300
 gtccaagaag caggaggagg ggctcgtcac caacaagtac aagcccaagg agccgtacgt 360
 cgggaggtgc ctgctcaaca ccaggatcac cggcgaccaa gccgccgggg agaacttgca 420
 caatggtctc cagcaaagaa ggcgaggtcc cctacagaga gggccagtcc atc 473

<210> 7596
 <211> 407
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-003-Q1-E1-E7
 <400> 7596

aattcccgtg tcgaccacg acgtcagaga gacttcaact ggccttggaa gagcaaactg 60
 aaatggcaaa tcatagccaa cagcagtgtg ataggctaag aaatgaacgg atcttgtgtc 120
 gaatttgctt tgaaagagac atatgcattg ttatgcttcc ctgccgccat catgttctct 180
 gcgagccatg ctctaacaag tgtcagtcac gcccaatttg ccgattgacc gttgagggca 240
 ggctatttgt ttatgatgca gtgatgtcat ccaatccatc atgttacgca gtttaaaagt 300
 gcacatgttg acagtatttg tagggtagct acttctggtg ttgacaaaga tggccacac 360

ctgtttcctg gcagtgaatg acaggttggt aaattcttgg tatgaaa

407

<210> 7597
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-003-Q1-E1-E8

<400> 7597

aattcccggg ccgacccacg cgtcagcaca gcaatccaca caagcacttc gacgtcacac 60
gggcgctgcg cacagacaca ccaagcgctg gcaccaatgg cttactacca ggaggtggac 120
tactgctcgg aggaggtgag gtcggtggcc cgggccggtc tcggccgcca cggcggcggc 180
gtccagcagc acgtcgtcaa ggagaagttc gaggaggtcg acacgggtctc acgcgccggc 240
gccaaccacc accaccacca tggtcaccac ggcggccacg gcttcgtggt gcgcgagacc 300
agggtcgaag aggacatcaa cacctgcacc ggcgaggtcc acgagcgcag ggagagcttc 360
ctcgccaggg ctaactg 377

<210> 7598
<211> 399
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-003-Q1-E1-E9

<400> 7598

accacgcgt ccaaagcgag cgaaggaccc ggggcggaag aagagagaga agacgtctct 60
ctcctctcgg cgtccccgtt cccaacctc tcgtctgctg cctgcctgcc tgcaaaaagg 120
agtttgtcat ggcgtctaag cgcatectca aggagctgaa ggacctgcag aaagaccccc 180
ccacatcatg cagtgcaggt cctgctggtg aggacatggt tcattggcaa gcaacaatta 240
tgggaccacc tgacagtcnc tatgctggtg gtgttttctt agtgaacatt catttccgcg 300
cagatttacc cttcaaacct ccaaatgttt ctttcaagac aaaggtcttc catcctaata 360
tcaacagcaa tggaaatata tgccttgaca ttctcaaag 399

<210> 7599
<211> 376

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-003-Q1-E1-F10
 <400> 7599
 acccacgggc ccacggacgc gtgagtgggt cgtctgccgc gtcttccaga agggcggcaa 60
 caggccgagg aggaggcagc gagaagcgtc gccgccgccg tccgctagca gcagctgcgt 120
 cacggatgcg tcgagctcgg acctggacga ggtcagcagc tagcttagct agctagctag 180
 cagaaccgac cgtacgtgcc ggctggccac aacatgcagt caagaacgta cgtacgtata 240
 tgtataccgc caccagctcg tcgcgcgcgc agctgtgctg tgcattgccg acgtgtgcgg 300
 ccggcctcga cctcgatctc gaagagagga tgtgatcaag ctgagttacg gataaggggg 360
 aacaacccat ccacac 376

<210> 7600
 <211> 445
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-003-Q1-E1-F3
 <400> 7600
 ggtcaagcat atccggggccg acccacgcgt ccacccacgc gtccgcccac gcgtccgact 60
 cgggtgcacgt gcaggagcag acggagctgg tgcacaaggc gctgcagcgc gacccctca 120
 actacccttt ctgaaagaaa cgaggccctt gtagattctt ggaattgggg accttttgaa 180
 tttgatataa taccaatata gagagaacat gccttaaatt ttatctgtgc agccatttgg 240
 tgaaataatt gtttcgactc tgcagtaccg catgaaacaa accgttgtaa gtttgaaaa 300
 actccatctc gcagcggtga ttttgtgttc ctaaagtctg gaaagtttgt atggctgaaa 360
 gcctgaaaca ccgcctgccg caattttctt gcgttgaatt gcaaagtcca taaaagcaat 420
 gaactgaaaa gtccatcaac cttgc 445

<210> 7601
 <211> 410
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-003-Q1-E1-F5

<400> 7601

gtacaggtca ggaattcccg ggccgaccca cgcgtccact tgcattccgt ccccggtccgc 60
gccggccgac gccgcctttt cgtccccgcg tcagcgtcgc ggctccactg agcgtgctg 120
tcaccggcgg gaggaaggagg caggcggtgg tggcgatggc gtccgctgac gcgcgcttgg 180
cggggatcgc ctctccatc cgcgtcatcc ccgacttccc caagccaggg atcatgttcc 240
aggacatcac gacgttgctg ctgatccca aggcgttccg tgacaccatc gacctctttg 300
tcgagcggtc caaggaccaa gggatcaccg tgggtgctgg tgttgaagct agagggttca 360
tttttggtcc tcctatcgt ttagccattg gcgcaaaatt tgtgcctttg 410

<210> 7602

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-003-Q1-E1-F8

<400> 7602

aattccccggg ccgaccacg cgtcagatca gggtgcccc aagttgggtc ctctgctgaa 60
gttttacttc catgaggaag tcaggagagc tgctgttgcg gccatgccgg aacttctacg 120
ctcagcaaaa ttggctgttg agaaagggca ggctcaagga cgtgatgagt cttatgtcaa 180
acagttgtct gactacataa ttgcagcact tggtgaagca ctgcacaagg agccagaaac 240
agaaatgtgc tcatccatgc tggattcttt aaacgagtgt atgcagcttt cgggtctttt 300
gcttgatgaa gcccaagtac gagctatcat agatgagatt aaaaacgtca ttatagccag 360
tgccaccgag aaaagagaac gctcggagag aacaaaagcc ggagaatttt gatcctgatg 420
aaggagagct actcaaagaa gagaatgaac aggaggagga 460

<210> 7603

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-003-Q1-E1-F9

<400> 7603

ttccccgggac gaccacgcg gccgaccacg cgtcaaggca tcaccgccc gacgacgatg 60

gcagcctcgc tccaagccgc ggccaccctg atgcagccgg ccaagatcgg cggccggggcg 120
ccctttgcct cgctgccgtc ccgcccgtcg tcgcaactcg cctgcagggc gttcggcgtc 180
gacgccggcg ccgccaggat cacgtgctcc ctgcaggacg tcgccagcag gtgcgtcgac 240
gccgcgaagc tcgccggctt cgcgctcgcc acctcggcgc tcctcgtctc gggcgcgagc 300
gcgaggggca cgccaagaa gctgacctac gacgagatcc agagcaaaac gtacatggaa 360
gtgaaaggca cgggcacggc gaaccagtgc ccgaccat 398

<210> 7604
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-003-Q1-E1-G1

<400> 7604

cgggtcggcc cacgcgtccg ccccaaaagt aataactagt aaacagagct gcgtccaggc 60
ttcttcgata ggtccatggc tgtcgtcacg agggacgcgg cgtgcctccc cctcgtcctc 120
ctgctcctag tcttctccgc ggccccgtct ccggtgacg gctgcgaccg ctgcgtgcgc 180
cggccaagg ccacctacta ccaggcctcc tcgctcgccc tcaacgccgg gtcgtgcggg 240
tacggctcct tggcggcgtc cttcaacggc ggctgctcg ccgcagccag ccccgagctg 300
tacaggggcg gcgtcggctg cagcgcctgc ttccagggtgc ggtgcaggga cagcgagctg 360
ttcagcgccg ccggcgcc 377

<210> 7605
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-003-Q1-E1-G2

<400> 7605

gggtcggccc acgcgtccgg gaaaaaaggc ccagaggcag tgccgtgacc gattcgagac 60
gcaagagaag gatcgagacg atgcggcggt tttccggggc agcatcgtct cggccacgaa 120
gatgtcttac tcaaggggct caaggtaagc actatttatt ttataacctt gaatgaccta 180
ctttaaaaac cttcttgttt caatttgtct tcaagtgatc ttgctcggtg ttctgatagt 240

ttttttacaa gtgaaaggta tggatctcgc tcaccttact cgagaagcac aaggtaccga 300
 agtcgctcta ggagtgtcga ctctagtgat gctgaaaacc ctgggaacaa cctgtatgtg 360
 actggtttgt cggctcgtg 379

<210> 7606
 <211> 414
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-003-Q1-E1-G5
 <400> 7606

gtacaggtct agaattcccg ggccgaccca cgcgtcaacc cacgcgtccg cccacgcgtc 60

cgcacacaca ccacaccaca cctcctcgtt tccactcgcg tcgtctgaca tctcgtcccg 120

tcctttcgtt tcgaagcctc gcgagccccg acgatggcca ccgccgcggt gtcgggtcgac 180

gagaagctcg acaagcttcg cgcgaggtc gccaaagctcg accagatcag gcgagtgcc 240

ccctcctctc cgcactagat ctgcgccccc gatcgcttcg cctcccattt ttgtgtattt 300

ctgagtgtgt ttttccgcgc agcgagaacg agaagtcggg gttcatcagc ctcggtgcac 360

gctacctcag tggggaagcg gagcagatcg agtggagcaa gatccagacc ccta 414

<210> 7607
 <211> 418
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-003-Q1-E1-G7
 <400> 7607

aattccccgg cgcacccacg cgtccacagg caatcgcagc aggcatttta cctttatcac 60

ccttgttcct ccaacaaccg tcagccctat tacaacagtt acctttggtg catttgttgg 120

cacaaaacat tagggcacia caactacaac aacttgtgct aggaacatt gctgcatact 180

ctcagcaaca tcagtttctt ccattcaacc aactggctgc attgaactct gctgcttatt 240

tgcaacaaca actaccattc agccagctag ctgctgccta cccccagcaa tttcttccat 300

tcaatcaact ggcagcattg aactctgctg cttatttaca acagcaacag ctaccacat 360

tcagccagct agctgatgtg agccctgctg cttcttgac acagcaacag ttgttgcc 418

<210> 7608
<211> 453
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-003-Q1-E1-G9

<400> 7608

attccccggga cgaccacgc gcccgaccac gcgtccgcga cagacaaaat cagtcaagat 60
gggtcaacgtt cccaagaccc gccgtacctt ctgcaagggc aaggagtgcg agaagcacac 120
ccagcacaag gtcacccagt acaaggctgg aaaggcttct ctgttcgctc agggtaagcg 180
tcgttacgac cgtaagcagt ccggttacgg aggtcagacc aagcccgtct tccacaagag 240
ggcgaagacc accaagaagg ttgtgctccc gtcttgagtg cactgcctgc aagaccaagg 300
cacagctcgc ccttaagcga tgcaagcact tcgagcttgg cggtgacaag aagaccaagg 360
gtgccgccct tgtcttctaa gcgtgtctcc tctttctctc tcttttgctg ggccctcggc 420
gtagtcttca agcggacang atgggtggct ttc 453

<210> 7609
<211> 176
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-004-Q1-E1-A11

<400> 7609

agcggacgcg tgggcggacg cgtgggatca aagctatgtt atcgggttca gaggcagctt 60
acatatccta tctaaacaac tcattagcaa atagtataag tgtgtaagca ctgtctacga 120
tggtgttatg atggtggtat ttgagatggc tctaggttct agatccataa tataat 176

<210> 7610
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-004-Q1-E1-A12

<400> 7610

ggcataaaact gggctctagt tcgtgccgcc acgccccag agctggaggc tcccctccag 60
gatacattgg aggccacact gcctcctcct gcagctgatg cggcccacac cgatatgttc 120
tgatcataca ttgatctatg atgctgcatg ttaatttgct taaaggaaga aaaaaaatag 180
atgatgaaga tgcattgactt tggcatagat gagaacaata atgtatgtta aggactaatt 240
atcttgatcc atcaaaaaaa aaaaaaaaac aaaagaaaaa aaaaacaaac aaaaaacaaa 300
aataaaaaa 308

<210> 7611
<211> 472
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-004-Q1-E1-A2

<400> 7611
ggtccgaaat taccgggtcg acgcacgcgt ccggctcgta tggggatcgc tgctctcgtc 60
tgcacaacag gccaaactata tcaccaactc ttgtgcttgc taacatgtat cagcgccccg 120
atatgataac ccctggagtt gatgctcaag gccaacctat tgaccctgag aagatgcagg 180
agcattttga ggacttctat gaggacatct atgaggagtt ggggaagttt ggtgaagatt 240
gagaatctga atgtttgtga taaccttgct gaccacatga ttgggaatgt ctatgtccag 300
ttcagggagg aagagcaagc agccgcagca tacaatgctc ttcaggggag cttttactct 360
ggccgcccta taattgttga gtattctcct gtgaccgact tccgtgaagc aacctgtagg 420
cagtttgagg agaacagctg caaccgtggt ggctactgta atttcattgca tg 472

<210> 7612
<211> 451
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-004-Q1-E1-A4

<400> 7612
ggtccgaaat taccgggtcg acgcacgcgt ccggattcac agaagataaa aatcttgagg 60
gaacaacttg cagagacaca gagcaagttg gagcatttcc ttatagagaa ggaaagcttg 120
actcaaacia atagtacttt gaatgaggag ttggaagtac atcagaacia gttgaacgat 180

ttacaacttg cacttgctgc tgcagtagca gaaaaggagg aggcattctg aagagattca 240
attcgctgca taaaacgctc gatggaatgg attcagcaca aagcagaatt agaaatacag 300
gtatcttcta ctatacaaga gcacgaagaa ctgaagagca agtaccaaaa tacaatggaa 360
gagaaacaga cgttgagtga taaatatgaa accgcaaaga aagagctcga ggatgcaata 420
gccaaagttgg aggaggaaat gaatgtagac a 451

<210> 7613
<211> 459
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-004-Q1-E1-A9
<400> 7613

gtaccggtgc agaattcgcg ggacgattca cgggtcgagg cacgcgtctg cacacgcgtc 60
cgcccacgcg tccgctaaag cgagcggcgg tcttgacca ggagttgcta ttcccaacgt 120
tgctgctgct ggggagcagg gacagcatat cacaattata acccttaaca aaaagggccc 180
gttaaagggtt ctgctccaac tggtaatggc ccaagcaatg tgattaacaa cacaaccagc 240
atgccccccg gcagaaacaa cagcttcaag tcggtgagca gcagtccagc tgctgctacc 300
ggatggcattg cggatgaactc gaaggctgac gactccttcc atcaactgga ggacctcgac 360
ctcgacggct tgatcacaaa cgaactgatg gagagcgggt tgttcggcgc cggacaaggg 420
tggtgagcat gtcccaccac gcctcacact actatcgag 459

<210> 7614
<211> 436
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-004-Q1-E1-B10
<400> 7614

ggataccggtc tagaattccc gggccgaccc acgcgtccac tccggacgaa atcagcggcg 60
gcggagatgg gagcggagtg ccggtacgag gtggcgcagg cggcgtacat caagctggcg 120
ctgcacgcac tgaagcaccg ggcgaccgcc gtcaacggcc tcctcgtcgg tcgcctcgtc 180
gagccttcgt cctcaccggc cgtcgtctcg gtcattgacg ccgtgccgct ttctcaccac 240

ccgcaccatc tgccgctgct cccacgctc gagctcgcg caccctcgt cgaggaccac 300
 ttgcgaaccc agggcggaagg cctcgccgctc gtcgggtact atcacgcaa cccgcgctgc 360
 gacgacaccg agtccccgcc agtcgccaag cgcgtcggag accacatctt ccgatacttc 420
 ccccgctccg cggtgt 436

<210> 7615
 <211> 435
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-004-Q1-E1-B11
 <400> 7615

attccccgggc cgaccacgc gtccaccac gcgtccgaat gaacaagtgt ttactgaaaa 60
 tgatgggttt tttgcttga tgtttctgaa aagaaggacc ttgtggcaga caattctttc 120
 atttgtttgg cctctttttg cactggcagt ctgcttattt ccagtttacc cataccagtg 180
 caagattggt gtactgtact catgtgctgg agctctactt ttcattgtct ccattctttt 240
 gctaaaaagc tgctatcttt ggtatcctat gggttctcct tgggaaacgc gtgtgggttct 300
 tccccaatat aaatgcggag gagacaactt ttagagaact cgttcgtttt tggcctgaaa 360
 aggatgaagg agagcggcca aagtggacat caagactttt ctatgccctt gttgctctat 420
 tggatgatatt actgc 435

<210> 7616
 <211> 295
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-004-Q1-E1-B12
 <400> 7616

aacgcatgtg aaggcctggt ggtctggtct gatggagagg ccgtctgtcc acaaggctgc 60
 tgccttgatg aagccgtctg cttgaaacgg ttgccctgtc aatcggtgaa tggaataagc 120
 caagtctgtt ctgggttggt tgcttggtca gtgatgtgtc tttctatgac gaaagttgag 180
 tgcctatgtg tgagcatgct tgcttgtaac gagaccttga attgttcgga aatgagcatt 240
 cctgtgctct tcttgaaaat aaactttgcg ttaggttcct caataaaaga tgtgg 295

<210> 7617
 <211> 465
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-004-Q1-E1-B4

<400> 7617

gggtccgacat taccgggggcc acgcacgcgt ccggcgagga ctgcttcgtg ctcaaggtgg 60
 aggcgaggagc gtccagcctg cgcgcgcgca acagcagcag cgtcgagatc atccggcaca 120
 cgggtgtgggg ctacttcagc cagcgcacgg gctgtctggt gcagctggag gactcgcacc 180
 tgctgcagat caggtccagc ggcgggcgcg gcgggagcgt cttctgggag accaccatgg 240
 agtcccgctt cggcgactac cgcgcgcgtc acggcgtaa catcgccac gccggccgca 300

ccgccgtctc gctcgtcagg ttcggcgact gccaggacgg caacaccagg acgcgcattg 360
 aggaggagtg gaacatcgag gaggtggact tcaacatctg gggcctctcc atggactgct 420
 tcctgccgcc cagcgacctc agggatggca aggagagcca ggacg 465

<210> 7618
 <211> 456
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-004-Q1-E1-B8

<400> 7618

attccccggg cgacccacgc atccgaagca gatcgactac tcagctagct cgaggttgaa 60
 ggcattggctg catccaaatt ctacgtcgcc agctgcgccc tcctcctaatt cggcgtgggtg 120
 ctgctggggc agcaggggat agttggcgcc gtcacctgcc cccagttctg cctcgacgtg 180
 gactacgtga cctgcccgtc ctccggctcc gagaaactcc cggcgagctg caactgctgc 240
 atgacgcccc aaagctgcac gctccatctc tccgatggca cgcagcagat ctgcagctag 300
 ctctgaacca atgtgtgctg gattcgatct ggacattgac caacctgctg gttttcgcaa 360
 ataaagcttt cgcgcctgta tatggccatc ctaataaatg tgtgatcatc tatatagaaa 420
 agtgacagac tacatatata tacatatata gatata 456

<210> 7619

<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-004-Q1-E1-B9

<400> 7619

attccccgggc cgacccacgc gtccacggac gcgtgggatt ggtttctgga ccaacaacaa 60
cattgctgaa gtatctgcgc agccggcttt catccgatga ggaagcatca ggatccagaa 120
gcaccccaac taaagatgac caaattgctg cagcaaggcg cttgtcctta tcttcaaagg 180
aactggactt gagtggcctt ggagtgacca gtgtaccagc tgccgcgtgg gagacaagtg 240
atgtggtgaa actggatctt tctaaaaatt caatagaaga tctaccaa at gagttgtcat 300
tatgtcatc acttcaatcc ttagttttgt ctaataacaa gataaaaagg tggcctcaca 360
cagtggtttc ctccttccc tgtctgtctt ccttaaagct ggacaataac cccttggtag 420
agatatcatc cactgatctt g 441

<210> 7620
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-004-Q1-E1-C1

<400> 7620

gggtcgagca cgcgtccgca ctgcagctcg cgatatttgc gagagagaga gagagagggc 60
ccgagagccg aggacgagtg aagtctggct ggcgtgatgc tgcttcggag cgcgtcctcg 120
ccgctgctca actgcgggcg cgcgccggt gcggcggcgt cggtcgagca cctcgcggtg 180
gtttcgccgt tgttgtcacc ggcagtggcg gcgcctaggc atgggcccgt gctgtgccgc 240
gccatgtccg agggggacct cgccgcgccg ctcgtgccca agaaggacga tggacacggg 300
agggcgccga ggctgtccct gtccgcgtcc ttgtcctcgt ccgcctccat cttcgtcga 359

<210> 7621
<211> 57
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-004-Q1-E1-C11

<400> 7621

gtaccggtctt agaattcccg ggccgaccca cgcgtccatg ctaactatct tgcgtt 57

<210> 7622

<211> 462

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB189-004-Q1-E1-C2

<400> 7622

ggccggtccg acattaccgg gtccacccac gcgtccgcag gacgcgtggg cagcagctcc 60

gctcgtcgat cagctctcgg ctgaccactc atcgccagtg ggtgcctgcc gaccaggtct 120

cgccgccgcc accgccgcgg tagagagggg agggagaggg ggaaaaaact ggcccagatc 180

gagaggtaca gcacgaaaaa gagaggcaag agagataggg gaccggaggg cgggggggcg 240

gggccaaga ccgaggggct cgtgcgcagg aagctgatga ggctcctgtc gctcgtcccc 300

ttcggtgcc gtgctggacc catcgacgac gcgccgccgc ncgtggacca cgccgccgcc 360

gcgaggaggc gccggaggag gagggccaac agggccgccc agctgctggg ggctgctgcg 420

ggtgcgccgc agcagtggcg cccctcgctc ggcgacatct gc 462

<210> 7623

<211> 458

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB189-004-Q1-E1-C5

<400> 7623

attcccggtt ccaccacgc gtccgacgga gcagccgcag tcccggcgat cccgccgccg 60

gtcgccctca tacttctctg tctactgctt cgtttctctt tccaacaatc aagatgagcc 120

gtggcggttag cgcgggtggt ggtcaaagtt ctctgggtta cctctttgga agcggtgagc 180

cccccaaacc agcagtggca ccagctgtaa gtgctccacc tgctgctgca ggtgctccac 240

ctgctgagaa accacctgct gcaaagcctg atggcaccag tcagattgct gctgggggtta 300

ccagccaaac caataactac cacagggccg acggtcagaa caccggaaac ttccttacgg 360

accgtccttc gaccaaagtc cacgctgctc ctgncggtgg ctcttccttg ggaatactgt 420
 ttggtggcaa ctgatgccgc tcaacaagct atcacccc 458

<210> 7624
 <211> 429
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-004-Q1-E1-C6
 <400> 7624

gggtccaccc acgcgtccga ggtcagagtg gtttgagctt aaccgcgagc tggctgtcca 60
 gatagtagcg gactacaagt actactccat cttcaggaag cactgcaggc catcctgtta 120
 tccagacgag cattacatac cgacttatct tcatctgttc catgggccac tcaacgccaa 180

caggactatc acatggggtg attggtcaag aggaggcccg caccagcaa gttatggtgc 240
 cacagacatc acagaagact tcatccaggc catcaggaat aatggtacgc agtgctttta 300
 caactcgaag cccacctctg tctgctacct cttecgagag aagttcgctc ctaatgcttt 360
 gccacggctg atgaacctca cctcgaccgt gctggacttc tgagccgatt ctcaccatgc 420
 gggcgggcg 429

<210> 7625
 <211> 396
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-004-Q1-E1-C9
 <400> 7625

taccggtcta gaattcccgg gccgaccac gcgtcagctg cccgactgct ccacaggcca 60
 ctgctcacc caaacaaaa cgaagctgcg ggctgcggc ggcagcaaca gagagcagag 120
 atgctgcaat tcccggcgct gatgcggcag tggccatcgc cgccgctgat cccggcgctc 180
 acgtgctcc ccgtgccggc cacctcccag gatgacgagg tcctcctcgc catggccgag 240
 tccgacctcg aggacaagtt gaatgagatc cggaagacca acagccacct gattatcatc 300
 gggaagccca caggcgacac caaggaggag tatgacgctg aggtggagga cgacgatgca 360
 gacaacgtcg aggagtctga tggcgatgac ttcgac 396

<210> 7626
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-004-Q1-E1-D10

<400> 7626

taccggtcta gaattcccgg gccgaccac gcgtccagtc tactgggccg cgcagctgct 60
 cggcgccgctc gccgcccgc tcgtgctcag gctcgccacc ggagggatgc atctgccgga 120
 gtacgcgctg gcggggggcg tgagcggatg gaacgcggcg gtgctggagg cggccatggc 180
 gttcgggctc atgtacgcct actttgcgac ggtgatggac aaagcgcgga gggctccgcg 240
 cggcgccgga gcgctggcgg cgccgctcgc cgtggggctt ctggcggggg ccaacgtgct 300
 ggcttgcggc gcgctggagg gcgccgtgat gaatccggcg cgcgcgttcg ggcccgcctg 360
 cgtgggctcc cgtcgctgga gacaccaatg ggtgtactgg gtggggccca tggtcggcgc 420
 cggcctctcc ggcgtcctcc acgag 445

<210> 7627
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-004-Q1-E1-D5

<400> 7627

cccacgcgctc cgaccaagca tgagcctacg cattgatcgc atacgtcatg ggatctgcac 60
 ataaaactat agttcccaga tcgtcaatat agcagggaaa gaacacttca tcttttaccg 120
 cggtaatttt gctgttatat gcataatcag tttccaagca gattaaagag aaaagattaa 180
 agtttcgtca gtttgccctta aggtgggttca aatgggtctgt gatacgaaac gtatgttgct 240
 atctcgtaag gcgcatgtgg gatagttaca ttgccgaatg ctactatcta cgagattttc 300
 tcgtgtaa atcagctagt tttttgctga catagtcaga cacactgcac aagctggatt 360
 ttcatgagat ggtgatgtac ctgcagcatc tcggaattag gacattagca cacgatgatc 420
 tagagatagt 430

<210> 7628

<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-004-Q1-E1-D6

<400> 7628

gggtcgaccc acgcatccga aaaaatcttg agctcgcaac catgaaattg tcccaagaac 60
tggcagagca attgcgcctg gttatggaac caactcttgc tagtaagctt caaggggatt 120
atagaactgg aaagagaata aacatgaaga aggttattcc atatattgcg agtcatttcc 180
gcagggacaa gatatggttg cgccgaacta agcctaataa acggaattac caagtgggta 240
ttgctgttga tgactctaga agtatgtctg agggcaaattg tggaaaattt gctatcgagg 300
cattagttac tgtgtgccgt gctatgtcac agcttgaggt tggacaattt gcagttgcaa 360
gttttgggaa gaaggggaac gttagtgtgc tacacgattt tgatcagatc tttaatagtg 420
aagctggagt taatgtgat 439

<210> 7629
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-004-Q1-E1-D9

<400> 7629

gtaccggtct agaattcccg ggccgaccca cgcgtaagg cgagcagcag tacttcaccg 60
acaccaccac cctcttcac atcgagctca tcctcatcgg ctgggcccag ggccgccgtt 120
gggctgacat catcaagccc ggaagcgtca acaccgatcc catcttcccc agcaacaagc 180
tcaccggcac cgacgtcggg taccctgggt gcctgtgggt tgaccgcgtc ggctggggct 240
ccggctcgcc ggagaagatc aaggagctgc gcaccaagga gatcaagaac ggacgcctcg 300
ccatgctcgc cgtcatgggc gcttgggtcc aggccgagta caccggcacc ggccccatcg 360
acaacctctt cgccacctc gccgacctg gccacgccac catcttccag gccttcaccc 420
ccaaatgagg agctctgatg aac 443

<210> 7630
<211> 429
<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-004-Q1-E1-E2

<400> 7630

ccggtcctaa attaccgggt cgacgcacgc gtccgatgtc ttgcaactgc ggatcaagct 60
gcggctgcgg ctcaagctgc aagtgcggca agaagtaccc tgacctggag gagacgagca 120
ccgccgcgca ggccaccgtc gtccctcggcg tggccccgga gaagaaggcc ggcgccgagt 180
tcgtcgaggc cgcggcggag tccggcgagg ccgcccacgg ctgcagctgc ggtggcaact 240
gcaagtgcga cccttgcaac tgctgatcac atcgatcgac gaccatggat atgattatta 300
tctatctagc ttgtggtggt ggttgaacaa taataagcga ggccgagctg gctgccatac 360
ataggtattg tgtggtgtgt gtgagagaga gagaaacaga gttcctcagt ttgtatctc 420

tctctgcat 429

<210> 7631

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-004-Q1-E1-E5

<400> 7631

ttcccgcgtc caccacgcg tccgaaaccg cgctcgtaagc atccttctcg gagatgccgt 60
tctgtttgcc gtaggtgtgg ttctcgtcaa aggttaccat gacaagtgtg ttgtgcatgc 120
agttcttgtt ggtaaggagg ggttccacga gcaacgcact tacggcatac atgacggcgt 180
cttcagcatc gttcccggag atgtgttcc ggctgcgcgg gtcggtacca cgaatgatgc 240
ctactacaac cagtacagcg agatctctaa tgcacaagcg aattgcggtc tgcacacatc 300
aggccgttgg gacgtaccgt gcaccatgtt catattcgta gctacgaata ctgtgcatac 360
tggtgcagca tgggtctggga aggttgtctt cagcactacg tacatcactg cgtcggacac 420

t 421

<210> 7632

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-004-Q1-E1-E8

<400> 7632

cccacgcacg cgaaatgggtc aaatagccga acaagagcca gcaaattctg tctgggtctag 60
cagttaccat gtgtgattca gtaacttgta ccaggatgat tgctggagtt gctggggact 120
attggattaa gtggcacagc ctgatctatt gagcttggcc catacctgca gcaactctgtt 180
aaatttcttt tgagcatggg ggtctttgaa gcatgacaat ggctgctctt aggtttggga 240
ttgccaccat cttctgggac aaagagggag tggaggatga ttgatctgtc ggcagtctga 300
tggggatgaa ttatacgagg tcttcaacgc tgacacaaag ggtaaatgaa acaaactcga 360
atccagtgat tataggcgct ccgcacggac catatgattc atctcccctt ggacatgtag 420
ctacaagaat ggtgtcagtg ggccgttgct g 451

<210> 7633

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-004-Q1-E1-E9

<400> 7633

taccggtcta gaattcccgg gccgacccac gcgtaacgg acgcgtgggc acagtaagaa 60
aagatggcgc tgccatccat gagtcttgcg gcaaaggggtg tgcttccctt ctcagcacgt 120
acctcgagtg gtgtcacaca aaggccggtg tcagtgaccg cttccttgga gcacaaaacc 180
agcgatgcca gaaggaagtt cctaaaactt gcaattggga acctggagt tggactgccc 240
accttgttgg gcgctaagaa agctctcgct gatgagcaag gcgtctcgtc ctcgaggatg 300
tcttattcga ggttccttga gtaccttgac aaggatagag tgaaaaaggt tgatttgttt 360
gagaatggga caattgctat tgtggaggcc atttctctg agcttggtta cgcgtgcaa 420
agagtccgtg tgcagcttcc tggctaaagc c 451

<210> 7634

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-004-Q1-E1-F10

<400> 7634

taccggtctg gaattcccgg gccgaccac gcgtccaccc acgcgtccga tgacagtctc 60
ctcagctgat gatgaccga gggttgttg agttgtaagc tgctgattct cgcggtcgcc 120
agctatttaa ctgtcttgta ttgagccttg agacaaagca agctttgtgt atcatgtgtc 180
gtcttgtttg ccttgctatg gaagtgtgtt tgtatcgga ttcgggagtc ctattgttgt 240
catagtcgca acttctctgc ctttttacc cggaaagat gctcttgca ccaaaaaaaaa 300
aaaaaaaaa aaaaaaaaaa aataa 325

<210> 7635

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-004-Q1-E1-F12

<400> 7635

taccggtcta gaattcccgg gccgaccac gcgtccaaac aacctggctg gcaccatcac 60
cctcctggag gtgatggctg cgaacggctg caagaagctg gtgttctcgt catctgcaac 120
tgtctatggg tggcccaagg aagtaccctg caccgaagaa ttcccgtctt gcgccaccaa 180
tccctatggg cggacaaagc ttgtgattga agacatctgc cgcgacgtcc accgctccga 240
ccccgactgg aagatcatac tgctcaggta cttcaacccc gttggcgctc atccaagcgg 300
gtacatcggc gaagaccctt gcggtgtccc gaacaacctg atgccctacg tgcagcaagt 360
cgctgttggg aggttacctc acctcacggt ctacgggacg gactacagca ccaaggatgg 420
gactgggg 428

<210> 7636

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-004-Q1-E1-F3

<400> 7636

cgggtccacc cgcggtccg aggacgctg ggcggacgcg tgggctccac tctgagtc 60
tcacctcgtg ctgcccgcgc catttccacc tccactgtc ctttcgtcca gtccccagcc 120

ctgcagccca accgtggagg ttctggaagg cgggtgatcc cttctagaac cttctcgaga 180
 tgcagagcgc cgcggctttc cggccatgcc ccactcggct gctggtgagc agcccttgtc 240
 gccccctcct ctgcggccgc ccgcttcgtg cctccgccgc tggcgccgtc gctaccagaa 300
 gcagcgccgt gggccctcgc ggtctggggc tcgggctgct gccagcctcg cccgatcggg 360
 atggcaagtg ccgccagcga caggtgtcat gcagcgcggc cggggatgct g 411

<210> 7637

<211> 467

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-004-Q1-E1-F6

<400> 7637

ttcccgggtc caccacgca tccgaagcaa tccacacaag cacttcgacg tcacacgggc 60
 gctgcgcaca gacacaccaa gcgtcggcac caatggctta ctaccaggag gtggactact 120
 gctcggagga ggtgaggtcg gtggccccgg ccggcttcgg ccgccacggc ggcggcgctcc 180
 agcagcacgt cgtcaaggag aagttcgagg aggtcgacac ggtctcacgc gccggcgcca 240
 accaccacca ccaccatggt caccacggcg gccacggctt cgtggtgcgc gagaccaggg 300
 tcgaagagga catcaacacc tgcaccggcg aggtccacga gcgcaggag agcttcctcg 360
 ccagggctaa ctgagccgcc cggcggccgg catccacgcc cgttcgtgct tgctgcgtg 420
 cttatgtat gtctgtggtt gactggttgt gcagggtcat cgtactt 467

<210> 7638

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-004-Q1-E1-F7

<400> 7638

gggtccacc acgcgtccga tttttgttaa tgttcagtgg atcgccact ttttcgtgtc 60
 aatagggtaa cactacgaac ttggttcttg tttctcttc ctaacgggtg gcagttctga 120
 tgcataactt tttttttttt gctttgttca ggtggcctta cccatttcta gacttgacat 180
 tccctggtgc acctgtatgg taaggtcgac tagacgaaac aagtgactct atttttgcta 240

aataccatgg tctcatgtgt agcttacgca ttagtttggc tctgtttgtt tacttccagg 300
 attatataat ccagcttagg gcctgttcgg ttagctctaa atccatgtgg attgagtggg 360
 tttgggtggg ttcaaattccc aaacaagtca aaattgttct caattttttc caatccccgtc 420
 caatccatag ctaacgggat taaccgaac 449

<210> 7639
 <211> 457
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-004-Q1-E1-F8
 <400> 7639

gggtcgaccc acgcatccga ccacgcgtcc gccacgcgt ccgcatgtcc ggagtccagg 60
 cgatgccgac ggccgtgggc gtcgcggggc tgagagggtc agggttggtt agcagcagca 120
 gtaccagctt gttcgccggc gactgcaaga ggaaggctcg tcgcccggcg tgctcggcct 180
 gggccctcag gcagagccgg atcggcagca ggagcaggag caagaggggc ctcggcatcg 240
 tctgcaacct cgcgggacag tacgaggatt ccttcgacga cgtccagcgg caactgatga 300
 actacttcac ctacaaggcc gtgaggaccg tgctgaccca gctctacgag ctgaacccgc 360
 cgagctaccg ctggttctac aacttcgtcg ctgtcaacaa gcctaccgac ggcaagcatt 420
 tcctccgtgc tctcggcaag gagaggcagg agctcgc 457

<210> 7640
 <211> 438
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB189-004-Q1-E1-F9
 <400> 7640

cggtgtgcaa ttcccgggccc gaccacgcg tccaggcgtc gtccatgctc tccgctacca 60
 ccgtgccact ccagcagggg ggccggcctgt ccgagttctc cgggctcagg agctccgcgt 120
 cgctgcccac gcgccggaat gccacctccg acgacttcat gtccgccgtc tccttcagga 180
 cccacgcggg cggcacgagc ggccgggtcgc ggccggcgcc gacggaggcg aagctgaagg 240
 tggccatcaa cgggttcggc cgcacggggc gcaacttctt gcggtgctgg gaacggcgcg 300

gcgaaccctt cgccctcgac gtcacgcga tcaacgacac cggcgggtgtc aaagcagggt 360
 ccantgtgtc aagtacgact ccacgctcgg gatcttcgac gccgacgtca agcccgtcgg 420
 cgacaacgcc atctccgt 438

<210> 7641
 <211> 409
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-004-Q1-E1-G10
 <400> 7641

tacgggtcgg aattccccggg ccgacccacg cgtccactag aactagtgtc tcgggtgcaga 60
 tgcaggcaat gctgttggtc aggacgatat gaacatggac atggacccag atgttagcct 120
 gcctcaactg aaacaacatg gtcccagaca ttagccgctc ttgtgttatc acaatggctg 180
 tgactgtgag tatctttaca gttatgctcg ttatatecct gtgggtgtacc tgtttcgatc 240
 gtcttcgacc aaatgtcacg tcgactgcag tctccagttg ttaatacagt ctgttcagca 300
 cgctgattta agtatttggg tcaagatggt catataatcc tgtgggtatcc agagatatta 360
 tagtttgttt tcgtaactgt ttgcgcagag accatgctat gttgcctgc 409

<210> 7642
 <211> 434
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-004-Q1-E1-G11
 <400> 7642

cggctctagaa ttccccgggccc gacccacgcg tccacggacg cgtggggggcg cgcaaggagc 60
 agtgccctggc gctcggcacc aggttgcgct ccaagtacaa gatcacctac cagttctacc 120
 gcgtcttccc caacggcgag gtgcagtacc tccaccccaa ggacggcgct taccgggaga 180
 aggtcaaccc cggcagggag ggcgtcggcc agaacttccg cagcatcggc aagaacgtca 240
 accccatcga cgtcaagttc accggcaagg ccaccttcga ctaatcacac ttcacgtacg 300
 ccgcacgccc cagccgggat ccaaattaaa gaacttcttc ttctattaat tacagtatat 360
 tgtaatttgg ctgctggtac ggtgggtggca tgatttgaga tgtgcatgat gatccttggtg 420

taatttttatt acca

434

<210> 7643
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-004-Q1-E1-G6

<400> 7643

cccacgcacg cgacggaatt cgatggggag aagccggagc cggcgaaggt ttgacctgta 60
actctgcagc ggatgatctc ataataaggt aacactggca ttttggtaac catagacgaa 120
taagaatgag ggaaatttca gaacatgttc cggtgatact aattagctag aggaaaattt 180
gacacggaaa gttccttatt ctgtagaatg tgcctttgtg gtgagtaaag atgtccattt 240
catatggcct ttgtgatgag tatgtctgca ttgaaaagtt agtgctttca ttcttgataa 300
tggacacttc gatttgattc aaaaaaaaaa aaaaaaaaaa aaaacaaaaa aaaaaacaaa 360

<210> 7644
<211> 445
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-004-Q1-E1-G7

<400> 7644

gggtccaccc acgcgtccgc agcagctccg ctcgctcgatc agctctcggc tgaccactca 60
ccgccagtgg gtgcctgccc accaggtctc gccaccgccg ccgccgccgc ggtagagagg 120
ggagggagag ggagagggag aaaaaactgg cccagatcga gaggtacagc acgaaaaaga 180
gaggcaagag agatagggga ccggagggcg gcggggccggg gcccaagacc gaggggctcg 240
tgcgcaggaa gctgatgagg ctctgtctgc tcgtcncctt cggctgccgt gctggaccca 300
tcgacgacgc gccgcgcccc gtggaccacg ctgccgccgc cgccgcgagg aggcgccgga 360
ggaggagggc caacagagcc gccagctgc tgggggctgc tcggggtgcg ccgcagcagt 420
ggcgcccctc gctcggcgac atctg 445

<210> 7645

<211> 290
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-004-Q1-E1-G8

<400> 7645

cccacgcatc cgacaattcc tccttcggat ctgcattca gcgcagcgca ggtgtgaagg 60
aagggggacg cggaggaaga tggggctcgc gttcgggaag ctcttcagcc ggctcttcgc 120
caagaaggag atgcggatcc tcatggctcg cctcgacgcc gccggtaaaa ccaccatcct 180
ctacaagctc aagctcggcg agatcgtcac caccatcccc accatcggtt tcaatgttga 240
aactgttgag tacaagaaca ttagcttcac tgtctgggat gtcggggggtc 290

<210> 7646
<211> 414
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-004-Q1-E1-H10

<400> 7646

attcncgggc cgaccacgc gtccacaaaa ttaatgggtgt ctttaagaaa tgcatacgta 60
tacaaggaca acgcatgaat agcagctgca caaaaatata gtaaggctgc actgacattt 120
aacacttacc atgaaagaaa gcaaaatcat gtaatccttc ttcagctcaa agagaagcaa 180
tattgaagtc aatgggaatg aatagactga agctagtgtg gcagccattc tgacctacag 240
aaaaatagag atagtgcaca tcattactta tcgcatcagg aaaagtgagt tgcaaagcaa 300
cttaccagag cctaggcttg tggcagtgca acgacaacat taccctcagt aaagttgaaa 360
ttattaaata agctaccgac gccctccaaa acagttccag cagcagctcc aatc 414

<210> 7647
<211> 323
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-004-Q1-E1-H12

<400> 7647

accaataaac tccttatttg gatccaatgg aggcaggaga attctgtaca atgcagactt 60
 taaaaatcaa acttgaaagc aatacattga caatgtcata gaaggtgagg ggcacgtatc 120
 tatcttgaca ttgtctctcg tgggtggggac gcatgttctc ttctgtacga cgcaagcatg 180
 ctaaccctgc actaatctct gatcagttca attgtcacac ttccagcttg acgtcggcac 240
 gcaggtcagg tantggcacc agctacagtg atcgttgccg ttctctctc tgaacaccat 300
 taacaatcca acagcgaacc ctg 323

<210> 7648
 <211> 439
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB189-004-Q1-E1-H3

<400> 7648
 cacgcgtccg cacacgcgtc cgcccacgcg tccgcggacg cgtgggggtgc tggaggcgcg 60
 ggaggtggag gaccatcccg cgctaggcga aggagaggtg ctctcgagg tcgccgccgc 120
 gggcgtcaat cgcgcgga cagtgcagcg gatggggcgg taccgccgc ctgccggcg 180
 gtccccttac ccggggctcg agtgcctccg caccatctc gcgctcgcc ccaacgtcnc 240
 ctcccgctgg gccgtggcg ataaggttg cgcgtctc agcggcgcg ggtacgcgga 300
 taaggtggtg gcgccggcg ggcagctgct gccgatacc gaggggggtg cgctgacgca 360
 cgcagccggtc ttgcccagg tggcctgcac cgtctggtca accgtattca tgaccagtca 420
 cctctcccc ggtgaatca 439

<210> 7649
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-004-Q1-E1-H5

<400> 7649
 ggggtccacc acgcgtccga ccacgcgtcc gccacgcgt ccgcccacgc gtccggagga 60
 atggtggatc tgattatctt ggcaaaggtg ttcttaagaa atgactgtga atgggaaagt 120
 aactctcaaa gacaaatatt cagttactgt tgtatatgac aatcaattct ttgcactccg 180

aaaaaagtgt tgcccatccg agcttgcata tattacttct ttaagccgct gcaagaagtg 240
 gaatgctcaa ggtggaaaga gcaaggccta ttttgtaaag acaacagatg acaggttcat 300
 cattaagcaa atcaataaaa cagagtttga gtcatttatt aaatttgcac ctgattactt 360
 taagcatggt taccattctc tggacactgg aagccaaact tgtctcgcca aaat 414

<210> 7650
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-004-Q1-E1-H6
 <400> 7650

cggtcgacc cacgcatccg aagatggcga gagtagcttg taccctccgt ggcaagagac 60
 tggaagggtgg ggtgctgtac tctcgaaac atggcgggca ccatggcgag ggtaacgtgt 120
 accaaccagg ccaacggctg gaaggtgggg tgctgtactc tcggaacat gccgggcacc 180
 atggcgaggg taacgtgtac caaccaggcc aatggctgga cggaggagta ctgtgctctc 240
 gggtggcggg gacccgttct ggtcttgaga aaccggtggg cgagttgaca tatgcaaggg 300
 ttaagtgcta catatgtcgt gtggttgagg atccccagct gggtattaat cgattcggat 360
 cgccaaactc tcggatatga agactggatc ttcgaccctc atcctagata acaggtgaaa 420
 ctaaaga 427

<210> 7651
 <211> 403
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-005-Q1-E1-A10
 <400> 7651

attcaagggc cgaccgacgc gtccaccagc acattcacgc tcagctccag caatggctgc 60
 ctccaccatg gcgatctcct ccacggcgat ggccggcacc cccatcaagg tgggctcctt 120
 cggcgagggc cgcattacca tgcgcaagac cgtgggcaag cccaaggtgg cggcgctccgg 180
 cagcccctgg tacggccccg accggtcaa gtacctcggc ccttctccg gcgagcccc 240
 gagctacctc accggcgagt tccccggcga ctacggctgg gacaccgccg ggctgtccgc 300

cgaccccgag accttcgcca agaaccgga gctggaggtg atccactccc gctgggcat 360
gctcggcgcg ctcggtcgcg tcttccccga gctgctctcc cgc 403

<210> 7652
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-005-Q1-E1-A2

<400> 7652

ttttagctta attgcatgca tgcattcatta gatatagtaa cagtgatgga tcgttacacg 60
ctgcagaagc atgcgcttag tcgttatttg cagacgataa taagtagatc gatggagtag 120

tgatcgagca acacacacgt gacgacgttt gctcttattt acttacacgc acgcacgtgt 180

acggcgctag gggccgtata tatatcgagt tctgcatgca tatctcgatc gatgggatga 240

tcagtcgttt cagtcgcagt agtaggagta gccgtgcccg tgcccgtgcc cgtgcggcac 300

cctgtgctcc tgctgcctgc tctcgtagtg ggctctcttc tgctcgcggt gct 353

<210> 7653
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-005-Q1-E1-A3

<400> 7653

gaccagggc tccagatcag taaaaagttg gaaaccgagc tttctgcctc ttaacgttct 60

tctgcgcacc aaaatgattc gccctgggta ccgatctggt ttcttcaatc tttacatac 120

ttatatcgag tttagagagg aatattaaca tgaataatgt ggtaactgac tgggaaattc 180

aaaccgtgtt caccaactat ttgccgctac tgttcttcag gaaagtccaa tacattgtac 240

ataaccatgc atcaaccatc agctcaagac taaaggctct cctgcagtat tgtgggtgcac 300

tgactattgg tctatttctt tcgaaagaga gagagaggaa agctattagc tagtgctaga 360

aatataatgg tgccccac 378

<210> 7654
<211> 427

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-005-Q1-E1-A5
 <400> 7654

cggtctagaa ttccccgggcc gaccacgcg tccaccacg cgtccggtag aagaggagt 60
 gcagagcagg gtgtggaagg tgtgcgtgta cgtcatcacc ctgggcatgc tgggtggcgct 120
 gctgctgggc ctcaacatgt cgtggagcgc catcaccgcc gccctggcgc tcatcgtgct 180
 ggacttcaag gacgcccgcc cctgcctgga gaagggtgcg taccgctgc tgctcttctt 240
 ctgcggcatg ttcatcaccg tggacggctt caacaagacg ggcatcccca gcgcgttctg 300
 ggacttcatg gagccgtacg cgcggatcga cagcccccgc gggacggcgc tgctcgcgct 360
 cgctacctc ctgctctcca acgtcgcgtc caacgtgccg acggctcctgc tggctggccc 420
 cccctt 427

<210> 7655
 <211> 416
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-005-Q1-E1-A6
 <400> 7655

ccggtctagc attccccgggc cgaccacgc gtccaagcac cagacctcat ctactccgc 60
 taccctctca tcttgccatc caccagaagc agtgcaagca tatggcgcg cgtgccagcc 120
 tgctcctcgc cgcggcgctg ctgctgcgcg tcgctgcgcg ggcgggtgccg ccgacgtgcg 180
 agcgcacgca gtgcccggcg tacgaggtgg tggacagcgc caacgggttc gagatccggc 240
 ggtacacgga cgccatgtgg atcaccacgg cgcccatcga ggacatctcc ttcgtcgccg 300
 ccacgcgcac cggcttccta cagctgttcg actacatcca gggcaagaac gcgtacaacc 360
 agacgatcga gatgacggcg ccggtgctga cgcgggtgtc gccacgcgac gggccc 416

<210> 7656
 <211> 384
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-005-Q1-E1-A7

<400> 7656

acggtctagc attccccgggc cgaccacgc gtccacggac gcgtgggcgg acgcgtgggc 60
ggacgcgtgg gcctcgcta gcctgccact gccagcaggt gccaccgcca tctctgtctt 120
gctctcgcaa cgcaagcaca cgcccggccg cctgccacag ttgccatggc gaccatagcc 180
acgatggcgc tgctgaagcc cgccgccaag gccgaggcgc ggtcggcgcc gtccaccagc 240
agcggcagcg tctcgctgcg cgtccggacg gggcaggccg ccaagaaggc tgcgctgtcc 300
gtgtccgct cgtccacgct ggcgggcgcc ttctcgcg cgctggcgtc gtcgcccgc 360
gctgcgctgg cggacgtggc ggcg 384

<210> 7657

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-005-Q1-E1-B10

<400> 7657

attccagggc cgaccgcagc cgtccacgga cgcattgggt ctcttcttcc tccacattcc 60
taggactgga ggccgcacct actttcactg cttcctaaaa aagctgtata caaatgcgca 120
ggaatgcccg cgttcttatg acaaactacg gttcgacca agccatcctg attgcaagct 180
ggttgttagt catgatgact atagcttaac ttccaagctg ccaagggaga gaacatctgt 240
tgtaacaata ctaaggaacc caattgaccg tgtatttagc acatatgagt tttcagttga 300
agttgcagct agattccttg ttcacccaaa cttaacttct gcaaagttaa tgactaccgc 360
tgtgttaaaa aagtctcgtg ctgtcagtag tttggacatc tgg 403

<210> 7658

<211> 78

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-005-Q1-E1-B11

<400> 7658

gaccgcgcgc tccagaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaagaa aaataaaa 78

<210> 7659
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-005-Q1-E1-B9

<400> 7659

attccagggc cgaccgaccc gtccaccac gaatccggtg gatttcttcg acctcgtgat 60
 cgacgagctc aacaagcccg accctataat gaacgagaac atcgcggttg acctgttggt 120
 cctgtcctc ttcgagagcc acgagacgac gtcgatggga ctgaccgga tactcaagtt 180
 cctcacggac aacccaaagg ccctgcaaga attgaccgag gagcatgaaa aaatcgtgga 240
 aacaaggggtg gatccggact ctgatatac ctgggaggag tacaagtcta tgagattcac 300
 atctcatggt ataatgaat ctcttaggct agcaaatac gtcggttggt tgttcagaca 360
 ggcaaaccaa gacgtataca taaaggggta cactatccca g 401

<210> 7660
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-005-Q1-E1-C10

<400> 7660

attccagggc cgaccgacg cgtccacca cgcacccg gacggtggg cgggccggg 60
 ggctggacga catggagcgg ctcttcgagg ccatggagc cggcgacggc gcgagcgccg 120
 gcgccccgga caccagcacg tacaacgtgc tggatgaacgc gtacggggcgc gcgggggtacc 180
 tggaccggat ggaggcggcg ttccgctccc tggcggcgcg gggcctcgcc gccgacgtgg 240
 tgacgtggac gtcccgcatc ggcgcgtacg ccaggaagaa tgagtacggg cagtgcctgc 300
 ggatcttcga ggagatggtg gacgccgggt gctaccggga cgccggcacc gccaaaggtgc 360
 tgctcgccgc gtgctccgac gagcgccagg tggagcaggt cacagccatt gtc 413

<210> 7661
 <211> 347
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-005-Q1-E1-C12

<400> 7661

attcaaaggc cgaccgacgc gtccacagct cacaaagtga tcacgcgggc gaatgggcta 60
ctcatcagct ctctatctga gcttcgttag caaataagtt cagacttctc tttactgcc 120
tgctcaagtc tgtatatggc caaaacccaa aacgattgat caactgcgct actgcagtgc 180
aatagcagga tacgtatagt tttcttttca agggaaacag gaggggagtg cagtgcaccc 240
ccgcccatac tgcattgttat taataaaaga aagttattta cagaaaaaaaa aaacatcata 300
aaagccagta aaaaaaaaaa aagaaaaaaaa aaaaaaaca acaaaat 347

<210> 7662

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-005-Q1-E1-C5

<400> 7662

cggtcaagaa ttcccgggcc gaccacgcg ttcagccaag cttccgagg ataccagcag 60
cgacgaagac cccgctagct tcgtcccgcc gattccagt ggcagcagca tctccagcga 120
gactactgcg gtgttagggc agggacgacc gctaccggtc gccgtggtga tcgatgtcat 180
caccacagcag gaggaagagg cgcggaggca ggaggcactg gagctgcagc agatagggac 240
ccagcggcga gccatgcggc ggtcgcggtc ggggcgcaag ccggttccga cgcagctcgc 300
ccggtcgcac tctacgggcc actccctcgc cgtccggctg gaccgcgacc tggagcgctt 360
cacgctgcgg ctgccggagc acgtgcg 387

<210> 7663

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-005-Q1-E1-C6

<400> 7663

accggtctag aattcccggg ccgaccacg cgtcagagta aaagagaagg aacggagaag 60
gactttggag gagatactct atgctctggt tgttcagaag ttcggtgaag ctggtgtctc 120

tctggttcca gactctcac gctccaccga tccttctgga agagttgac agtgggcaga 180
aactgtggaa gaaaagcttc aacgtctgca ctgcgatgag gcctatgaaa tgatcgagaa 240
tcacctcacc ctcatcttgg ggcagcgtca aggtgacgcc actatcgag ccataagtaa 300
gctccgtgtt ggccaggtct atgctgcac tgtgatgtac ggttatttcc tgaagagagt 360
tgaccagagg ttccagctcg agaagacaat gaagggcctc ccttgggggt cagaag 416

<210> 7664
<211> 455
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-005-Q1-E1-C8

<400> 7664

accggtctgg cattcccggg ccgacccacg cgtccacca cgcgtccgcc cacgcgtccg 60
acaccaacac ccactgccgc cgttttgctc gcgcgccgc tcatcgact gtccagtgt 120
ttcacctccc ctcatcgtgc gcgggtgcc agcggtcct cctccatctc ggtgccgcca 180
ctgaggagtc gatggtgcca gtggcgccgc ccgctccgat cgtgcccc cgaaggatct 240
ccggccgagc tgatggaaga ggactccaag tttgtgccgt tgaacgcgga cgatcccatg 300
tacggccac cggcgtact gtcacgga tttgagaaag gcgaaactgt cacgattcag 360
gccttctga aagagcttga aggtgaattc ctcaaggtga tccattgtac agaggagatg 420
acaaagcaaa accttatggg atgccatgca cactg 455

<210> 7665
<211> 332
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-005-Q1-E1-D12

<400> 7665

aattcaaatt tcaactctgtg aatagtagtc taaaatacag tagtgttttg agtaaactat 60
ggataaactg ctggacaagg tctaagataa gtgctgcgtg gtggcaacaa acgacactta 120
gtcttgtttg gtggcaatga tattggaggg gctaaagttt tttcgctcct aaacaagctc 180
ctaagaatct tacgtgttat gttgcattat ggaatatcta tgtatctgca aactctctgt 240

agttctgtatg tacctcggat gtgctctatg tggctttgta attctgaacg gaggaagtaa 300
taataagata aatggatggc gtaacaagat at 332

<210> 7666
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-005-Q1-E1-D5

<400> 7666

cggctctagaa ttcccggggc gaccacgcg tccaccacg cgtccgatct ctgtagaaag 60
gaaggttgaa catcaattca aaaatggact agcagagaac agaattggatt ctactgagga 120

caacaaaaac ttctcaaaa gcaaaaaaag cacactggag aaaggtagaa ccagtgaagg 180
tctatcttat gctcagaacc acgaaaccaa ggtccatgat tctgcacgtt ctcaagaaaa 240
aaatcccaag gatgaaagtg atgggcacaa agatttggac caacagaaga ataatgccac 300
caagaaagac aaacctgctg ctgagccgat aattgttcca attgtactga ggatgtctga 360
ttttgatcac aaagcattgc tagaggaatg gat 393

<210> 7667
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-005-Q1-E1-D8

<400> 7667

accggtctag cattcccggg ccgaccacg cgtcagagag cttgcacctt ttgttgtgct 60
cgcagaaaag cttgggcgct tggctgtgca actagttgct ggtgggtggg gtatcaagtc 120
tgtgaaagtg acctatgcat ctgcgcgggc ccctgatgat cttgacacga gacttctccg 180
tgcaatgata accaagggat tgattgaacc aatctccagc gtttttgtca atctggtaaa 240
tgccgacttc accgcaaagc agaggggagt tcgcatcacg gaggagagga tcttgctgga 300
cggctcacct gaaacaccta tcgactacat tcaagttcag attgccaatg tcgagtccaa 360
atttcccagt gcgatatctg agactggaga aatcactgtg gagggcagag tgaaggatgg 420
tgttcctcat c 431

<210> 7668
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-005-Q1-E1-E1

<400> 7668

ctgcttgtag cggtccagaa ttcccgagtc gaccagggcg tccgcccacg cgaccgcca 60
 cgcggtccggt ctctctccg tgcggtggt agctcatggc atcctccatg gccgcccgg 120
 ccaccgcccct ccggtgccc tccgggacga cgcagaggcc gtctgcccag ggccgctcc 180
 tcttcaccgc cgcaccgcc cgctcccgct gccgtccct ccgcctccgc ccgcccggc 240
 gccggtcggc ccgctcctcg ctcggggcca ccaaggctgt ggtggcagcg ttggtgatc 300
 ctctcaaggt catgatatca ggagctccgg cgtccggcaa gggcacacag tgcgagctca 360
 tcaagaccaa atatcaactg gcgcacatct ccgctggaga ttgttgcg gcggaatcg 420
 ctgctgggt 429

<210> 7669
 <211> 359
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-005-Q1-E1-E10

<400> 7669

gtagccgagc agaagtagcg cgtcaggcaa tggctccggc accggtggcc gctcccggtg 60
 ctctggtctc ccgcgccgga gctgctctcg ccgcgccgg cgccgtccgc tccgccagg 120
 tagcctccct gcacccttc cagtcttcca caaaatcgt gctgctgcca ccacggaccg 180
 ccctgctcag atccgccagg cagatgcggc gcttggcggc acggagcagc acctcgga 240
 gcagcacgga tgacgccc aa tccctgaaac aagacaaggc gccgttcggg tacacgagga 300
 aagacgtgct gctgatcggc ctcggcgta ccgccttcgg cgtcgggctc aaatacggg 359

<210> 7670
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-005-Q1-E1-E12

<400> 7670

attcacgggc cgacccacgc gtccacttac gatccggtgt acggcgcgcg gccataaagg 60
agggtggatcg agaagaggggt ggtgacgcag ctgtcgaaga tgctgatcca ggaggagatc 120
gacgagaact gcacgggtcta catcgacgcc gcgcccggta aggacgaact ggtctacagg 180
gtggaccgga gcggcggtct ggtgaacgct gagacgggga tgaagtcgga catcctgac 240
cagggtcccca ccagctccac caggagcgac gctgcgacgg ccgtcaagaa gatgaggatc 300
atggaggagg acgaggacgg catggacgag gagtaaaagg cgggccggag gacgcggagc 360
tgcgcccagg ccgcaggtct ggcgccggca tcatcgagtg tcctttgaat 410

<210> 7671

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-005-Q1-E1-E5

<400> 7671

ttcccgggttc gacacacgcg tccacctgga agccgacgtg cggcgtgcgg tgcacacctga 60
cggacgagga ggcggcgctg gtcgggggac ggaaccacag ccacgcgacg caggacctgt 120
acgactccat cgcggcgggg agcttcccg ggtggacgct gtacgtgcag gtgatggacc 180
cggacacgga ggagcagtac gacttcgacc cgctggacga caccaagacg tggccggagg 240
acctgctgcc gtcgcgcccc gtggggaggc tgggtgctgga caggaacgtg gacaacttct 300
tcaacgagaa cgagcagctg gcgttcgggc cggggctggt ggtgccaggg atctactact 360
cggacgacaa gatgctgcag tgccgggtgt tcgcctacgc 400

<210> 7672

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-005-Q1-E1-E7

<400> 7672

taccggtcta gcattcccg gccgaccac gcgtccacgg acgcgtgggc ggacgcgtgg 60

gctccacccc gaccgaccta tcctaatecg cgateggcgac ggtggcgatg gacatctcga 120
agcccacgcc ggtggcgctcc ggcgacgagg ccgcggcggc ggccaagggg aggagcggcg 180
gagggggcgga ggggctgcgg cagtactacc tgcagcacat ccacgacctg cagctccaga 240
tccggcagaa gaccacaac ctcaaccgtc tcgaggccca gcgcaatgac ctcaactccc 300
gagttagaat gctcaggga gagttgcagt tgcttcaaga gcctgggtca tatgttggtg 360
aggttgtaga ggtcatgggg aaatcg 386

<210> 7673
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-005-Q1-E1-E9

<400> 7673

accgacgcgt caagtttacc attcttgatt cacagtttgt cagcgatgta acaaaataca 60
tcagtgggtg catggcttct ctatctgcta tgattcagct tgaacttcct catatcaaca 120
tcctttcaaa gatggatctg gtctccaaca aaaaagatgt agaagagtac ctggacccga 180
atgcacaggt tcttctttca cagctgaatc ggcagatggc acctcggttt ggcaagttga 240
acaagtgttt agctgaactg gttgatgatt acagcatggt taatttcatt ccacttgatt 300
tgagaaagga aagcagcata caatatgtgc tatcttctat cgacacatgt atccagtatg 360
gggaagatgc agacgtgaag gtcagggact ttcaagaaga cgaagactaa c 411

<210> 7674
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-005-Q1-E1-F10

<400> 7674

attccagggc cgaccgaccc gtccggttca atctgaaggc caaatggcac ttggacgtag 60
catttgggtg cctgctattc ccactagtta atctactctc acacataaac atcagcctag 120
ttccagcgtc accaggtcca gctgtcgggg ttccagcgt agaacagtcc atcgtggccc 180
gggatccagt ggcaatggct ttgtatgctg tggtagtcac ggtatgcgcg cctatatggg 240

aagaaatcgt gttccgagga ttccttctcc cgtctctaac acggtacatg ccactcccat 300
 ggtcgatcct agcgagcgcc gctgcgttcg cgctcgctca cttcaacgca cagaggggtga 360
 tgccgctagt gtttcttgga gtggtgatgg gaggagt 397

<210> 7675
 <211> 400
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-005-Q1-E1-F11
 <400> 7675

attccagggc cgacccacgc gtccaagacc agttacggac cctgtggcca acctgtttga 60
 taggctgttg tgtgcaaggt ccaggacttt ggaagtcgcc ctcccgatat cagatcctac 120
 caaggcttca agaagaaggg agcgcggcga gagggttctt gaggaaagggt tggctgccga 180
 caatgctggt gacacagagg cctcgccctcg tggccatggc accgcggaag actgagaact 240
 ttcttgtgac catcagctcc tcttttagga gccatggctt tgctccctcc agcgtttata 300
 gctctgcact tttgtcttct ggagatggag ttattcagtt cacagcgaac gaataatacg 360
 atgttcttag tttctttttt ttttcccgct tctttgtctg 400

<210> 7676
 <211> 460
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-005-Q1-E1-F2
 <400> 7676

attcccagagt cgacccacgc ctccaagaaa gcacaatagt gtaccaacaa tggcagccaa 60
 aatattttgc ctcttatgc tccttggctt ttctgcaagt gctgctacgg cgaccatttt 120
 cccgcaatgc tcgcaagctc ctatagcttc ctttcttccc ccgtacctct caccagcgggt 180
 gtcttcggta tgtgaaaacc caattcttca accctacagg atccaacagg caatcgcagc 240
 tggcatctta cctttatcac ccttgttcct ccaacaatca tcagccctat tacaacagtt 300
 acctttggtg catttattgg cacaaaacat cagggcacia caactacaac aacttgtgct 360
 agcaaacctt gctgcctact ctgagcaaca gcagtttctt ccattcaaac aactaaggt 420

caattgaact cggtttctta ttgcaacaa caacaactac

460

<210> 7677

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-005-Q1-E1-F4

<400> 7677

attcccgagc cgaccacgc ctccagcatc atcacgttca cgttcagggg ggcggtggcc 60

gacgtggagt acaaagggtt ccttatcccc aaggggtgga aggtgatgcc tctcttcagg 120

aacatccacc acagccctga ctacttccag gatccacaca agttcgaccc ttctagattc 180

caggtggcgc cgcgtccgag cacgttctcg ccgtttgggc acggcgtgca cgcgtgcccc 240

gggaacgagc tggccaagct cgagatgctc gtcctcatcc accacctggt caccggctac 300

aggtgctgcc atctctcttc agatcctctc catatattcc ccgcttgctc tatagcttgt 360

ggaccaggat gacacatggc tggctgctgc cgctctccat ggggctccgg ctctctctct 420

ccgtgaatgc tccaaatctc ctctgtctg tatgta 456

<210> 7678

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-005-Q1-E1-F6

<400> 7678

accggtctag cattcccggg tcgacacacg cgtaaccca cgcgtccgcc cacggtccg 60

cagcagcttc tgcttgctct ggggggaagg agagagagag agagcgagag agagatctag 120

tagagaggct agtaggtggt cctcgaacga agatgttggc ggtgttcagc gggcaggtgg 180

tggaggtgcc ggcggagctg gtggcggcgg gcagccggac gccgtcgccc aagacgaagg 240

cgtcgcagct ggtggggcgc ttctggccg cgtccgagcc ggcggtgtcc gtgcagctcg 300

gcgaccacgg ccacctcgcc tactcccaca ccaaccagge gctcctccgc cccaggtcgt 360

tcgcggccaa ggacgaggtg ttctgcctgt tcgaaggggt gctggacaac ctgggtcctc 420

ctgaccaaca acaacggggt gtcaagcaag ggcgccaacg a 461

<210> 7679
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-005-Q1-E1-F8

<400> 7679

cggtctagca ttcccgggcc gacacacgcg tccacccacg cgtccgcccc gtttctcgga 60
agctcatcag ccatggacga cgccgcggga gaggaagaag cttcgatggt cgagaccagc 120
catgtccttg ggcacctgct ggccctcctcg ccgctgctgg cgtccgcctg ggaccgctgt 180
acgaccgcca cagccgcggc gcccgggttc gtgcacggag aggacggcgg caaggtgtac 240
gtggggttct ccgggggtgca ggccgcgctg tctgcggcag gcgcggcggt ggccggtggt 300
ggcgccgacg tcttcgcgcc ggtggggctc ggcggggacg cggcggggcg gatgttcgcg 360
ccgctgctcg cggccgagcc cgactcgctc gctgctgggg agccggttgc cgttcagggc 420
cctggccctg cattgcttct tgaaactctg cggtaaccct ga 462

<210> 7680
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-005-Q1-E1-F9

<400> 7680

accgacgcgt ccacggacgc atgggcggac gcgtggggaa gaccggcaac aagcagcatt 60
tctgaaagca tgagggctcc aaacatattt cggctccaaa tcaaaagggt tctcagccac 120
aaaatgaatt aggtcttcag atattaagat atcaatgaat aattttgaat cagacttcac 180
tattgttccg atgggtctca ctgctgtacc ttttaactga aatcttctgc tgtttctcag 240
acatgatatg gcagcatgag gagttgtttt atcagttagc atatatgcat gtggttcaaa 300
aattgaaata tgtccttttg ttctcaggat gaacactttt actgattggt taagttggaa 360
ctattagtag ccaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaccccaa aaa 413

<210> 7681
<211> 393

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-005-Q1-E1-G1

 <400> 7681

 attccctagt cgacccaggc gtccgcggac gcgagggcgg acgcgtgggc gctgatcgtg 60
 tacctggtgc tccgccccac gcacccgcgc ttctacctgc aggacgcggc gctgcggcag 120
 ctggacctga gcaacggctc ggccccgctg ctgtccacgg cggcgcaggt caccgtggcg 180
 tcccgcgaacc ccaacggccg cgtcggcgtc tactacgacc gcctcgacgt ctacgccacg 240
 tacaagtacc agcaggtgac gctggcgctc aggtgccccg cgggtgtacca gggccacggc 300
 gacgtcgacg tctggtcgcc cgtgctggcc ggccccgcg tccccctcgc gcccttcctc 360
 gccgacgcgc tcgccaagga cctcgccgcg ggg 393

<210> 7682
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-005-Q1-E1-G12

 <400> 7682

 attccagggt cgaccgaccc gtccacccac gcgtccggga ggttggcagg ttacagcagg 60
 acagaatggt cattgggtca gccaggtctt tcaggatttc agccacctca ctgccagttc 120
 taagtgtgta tggacaacga agggagaaca actctgacga tgacagtgca tcctcctagg 180
 acagcaaggc tgagggacaa atcaccaagt cacaaaactg aattttggat ggagcacagc 240
 acatcagcta tgccattttt agctgctgaa gcggatgtcg cattggcatt tgccccgagg 300
 cacatgttta aggttgggag gacgaaggtc gggagggggg ggtatacttt tggatcctgt 360
 ggaaattctt tttgtacaaa aggaaaataa tcgtaacagg ttctctctct tgttgggtga 420
 c 421

<210> 7683
 <211> 411
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-005-Q1-E1-G2

<400> 7683

attccccgagc cgaccacgc gtcaaatcag atcacttttg ctcatatgct gaatcatcat 60
 gtgctgctct tgttgtggcc tctatctcgt cttttggaat caaccatgaa tttactccga 120
 tgggtgtaccc ttttctcgtc agttctgttg gtattatagc atgtctcata acaacgctgt 180
 ttgcaactga tttcttcgag ataaaggctg tggatgaaat agagcctgct ctcaagaaac 240
 agctcataat ttccacaatt gtgatgacca ttggcattgc actaatcagt tggcttggtc 300
 ttccatacac tttcactatt ttcaactttg gagtccagaa gacagtgcaa agctggcaat 360
 tgtttctgtg tgtggcggtt ggtctctggg ctggcctagt cattggtttt g 411

<210> 7684

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-005-Q1-E1-G4

<400> 7684

gatccaggcc tccagatcct tgcagacttg gcttttgtct tttcttttct ttttcttacc 60
 ttgccgtacc ctagctatag aggaattgtg tattgtctgg gggcatatag tttgagattt 120
 tgttttgtgc cacacctgtg ttactagtat aagctttggt acaaaggaat accgaggcct 180
 aagctcacat ctactacatg aatgggtgtaa tattgttgaa gatagaaagc atctaattgtt 240
 cggtggtttt ggctatgggt tcggttatta cgacacaaga ttattgtgac aaaaagtgtg 300
 ttttgagaga taatagagct catatctagt acattttg 338

<210> 7685

<211> 464

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-005-Q1-E1-G5

<400> 7685

taccggtcta gaattccccg gccgaccac gcgtccaagt tgaatcattt gaggaagtaa 60
 ctaggttagg agctgaagca cctgttgaa caaacatgcc tctaccttcc gatgttgagg 120
 tgataatgta cacaagtgg agcaccggat tgcccaagg agttatgatg acccaccgca 180

acgtcctggc tacactctca gcagtcata ccattgtgcc tgcacttggc agtaaagata 240
 tataacttggc ctaccttcca cttgcacaca ttcttgagtt ggcagcagag gactaatgg 300
 ctgctgttgg ggctcaata ggatatggat cacctttgac cctgattgat acatccaata 360
 aaataaaaaa gggaactcta ggtgatgctt ctgcactaaa gccaacattg atgactggcg 420
 tacctgctaa aacttggtcg tatccgtgat ggtgtcagga aaaa 464

<210> 7686
 <211> 461
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-005-Q1-E1-G8

<400> 7686
 ggtctagcat tcccgggccc acccacgcgt ccacggacgc gtgggggtatc tccctccttt 60
 tctcttgac tttaggggtg aatatatacc cttcccagcc atttgtctgg tgcagcaagg 120
 gatttgattc caagaatgct agttgtcgat cctatgaagc ggatcaccat tcgtgaaatt 180
 cggaacatg attgggtcaa aattcttctc ccgcgctatt tgactgtgcc tctccagat 240
 agtgcgcaac aagtcaaaaa ggttgatgag gaaactctcc gtgagggttt aggtatggga 300
 tatgacaaga acctgttggg ggaatcaatc caaaaaaggc tgcaaatga ggcaactgtt 360
 gcatattact tactcttggg caataggctc cgtacaacca gtggctatct tggagctgaa 420
 tgtcaagaaa ctatggcaca taggactcct cattctcaaa c 461

<210> 7687
 <211> 425
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-005-Q1-E1-H10

<400> 7687
 attccagggc cgacccgacg cgtccaccca cgcacccgga gcgcggcagc gaggcaggtc 60
 acgtttctca agcgcgcgcg cggcctcttc aagaaggccc aggagctctc cgtgctgtgc 120
 gatgccgacg tcgcgctcat cgtcttctcc tccacgggga agctctccca gttcgccagc 180
 tccagtatga atgagataat tgacaagtac aacacgcatt ctaaaaacct ggggaaaaca 240

gaacagcctt cgctggactt gaacttagag catagcaa atgcaaattt gaatgagcaa 300
 cttgcggaag caagccttcg actcaggcag atgagaggtg aagaacttga gggattgaat 360
 gttgaagaac tccagcagtt ggagaagaac ctggaatctg gtctgcatag ggtgcttcaa 420
 acaaaa 425

<210> 7688
 <211> 424
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-005-Q1-E1-H11
 <400> 7688

gaccgacgcg tccaaacaca cctcacgtcc aactcacaca acaaattgtc acgactcctc 60
 atccagctgg aagaattcat caccgcggtt catttgctcg aacaaccac aatcacacgg 120
 gggtcgcgag tcaagaccga tcagttaagg ccacacactg aagtggatcc attaacatcc 180
 accgcttatt tacaccatta gcattgtcca ccagtcgccg atatctctca tattatccat 240
 gctgccatct tgacaccgga tgagttgttg tcattctacg cgcacactgc gcccacgca 300
 ggtatccgca tacaactgca acaattgcct aaattcagga accgtacatt cgaattttca 360
 tcaacattct cactgtatac catcaatgtg agttgcttca tttaaaatgc ctaataatta 420
 aaat 424

<210> 7689
 <211> 421
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-005-Q1-E1-H12
 <400> 7689

ggtcgaccga cgcgtccacg gacgcatggg tccgactatg gaggttgacc ctaggcgttt 60
 ggtagaaaa actcaciaag gagagttcca agttgaagtt gaagagccag atggtttctc 120
 agtggaggtt gaacttggga gtaatgttac taacattcca tcaaaagctg ttgaagatca 180
 gacaaagtct aatggaacag atggtaaagt agatgttgaa gaaaaggaca aagcatctga 240
 tagcgttca cacaatgagg atggcagaac aggcaacaat ggtataccag gtgatgtaga 300

atgtatcgat aatgagaaag ctgatctcat gcaggaactt atcttgatg atgtgaagga 360
 cactgtaaat ctcccaccaa ttccttcgtt agatgaattc atgcagggct tagattctga 420
 g 421

<210> 7690
 <211> 462
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-005-Q1-E1-H2
 <400> 7690

attcgcgcgt cgaccacgc ctccaggcgg cgccacgctc ccaatgtgcc gctacggccc 60
 gtactggcgc aacctccgcc gcgtcgccac ggtgcagctc ctgtccgcgc accgcgtcag 120
 ctgcatgctc cccgtcatat ccgccgaggt gcgcgcaatg gcgcggagga tgtaccaatc 180
 cgccgccgcc gccccgccg gcgccgcgag ggtcgagctg aagcggaggc tgttcgagct 240
 ctcccacagc gccctgatgg agaccatcgc gcgaaccaag acgtcccgtg ccgtggcgga 300
 cgacgacacg gacatgtctc cggaggccca ggaattcatg aaggcgctgg acgtgttcct 360
 tccgcttctc agcggggcca acgcgtggga ctacctgccg gtgctacggt gggtcgacgt 420
 gttcggcgtg aggaacaaga tcctgcgcgc ggtgagcgca ag 462

<210> 7691
 <211> 452
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-005-Q1-E1-H4
 <400> 7691

gaccacgcc tccgctctac aggcagaaag aacagttcag tgacggcggt ggctacaact 60
 ggatcgatgg cctcaaattc ttactgaac agcaggtgac ggatgagatg atgaacaacg 120
 ccgccagat gttcccctac aacacgccg tcaacaagga ggcctactac taccggatga 180
 tattcgagag gctcttcct caggactcgg cgaggagac ggtgccgtgg ggcccagca 240
 tcgctgcag cagccccgcg gccatcgagt ggggtggagca gtggaaggcc tccaacgacc 300
 cctccggcgc cttcatctcc tcccacgact ccgccgccac cgaccacacc ggcggtgaagc 360

cggcggtggc caacggcggc ggccacggcg ccgcgaacgg caacgtcaac ggcaaagacg 420
tcgcagtcgc gatcgcggtc tgacgagagt ac 452

<210> 7692
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-005-Q1-E1-H5

<400> 7692

ccggtctagc attcccgggc cgaccacgc gtccagatca tttttgttct ttaggtgcag 60
gtttagtggg acatagtcgt cggtatctta cagcatgtgt ttctgatgga gtgatatggt 120

tagtaagcag tggatgaagga tacaggcata cgggcactgg ggcatatacc atacttttgg 180
actagaccgg ctagagactg attttgaggt ccgttatgtt tccgttttcc gttctcttgg 240
ttttctctgt cgtcaatgta ttataatcat gatgatgaat ggagaaatga gatggatttt 300
ttttgagttc 310

<210> 7693
<211> 182
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-005-Q1-E1-H6

<400> 7693

ttcccggtct gaaacacgcg tccgaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaaa aaggaggagc gcacaaaagg ataaaaagct tacataaaca tgaaagcaaa 120
agtcaatagc tcttcaaaaa tgtcaccaaa aattcaattc aatggggggg ccttttaaaa 180
ag 182

<210> 7694
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-005-Q1-E1-H7

<400> 7694

taccggtcta gcattcccgg gccgaccac gcgtcaaag acatctggtg cacataccaa 60
 cttcattttg ccttggacac tattataatg gaggatgact gtacaatctt tactggatcc 120
 acagtatcgt gaacagctgc aatcatctac ttttgttatt ttgactggta tttctagttt 180
 atgtatcatc acatgtcagc attgccatgt agccacattg gaatttattc atatatgaaa 240
 atttgaacat aggctttcat cacttcttat atcacatggt tgattcactt gtaccatctt 300
 ttgctgggta ttttctgtac taaccccaat caagtttaca aggtactgtt ctttctcata 360
 attttttaat ttaaatgcag cctgttcaag aagaaacaaa gaaggatatt acagataaag 420

<210> 7695

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-006-Q1-E1-A11

<400> 7695

aagcaacata gaaagtggaa tacagtagca acaatagagc aacaatggcg gccaaagatat 60
 tttccatcct tatgtctctt gctctttctg catgtgttgc taacgcgacc atttttcctc 120
 aatactcaca agctcctata gctgcccttc ttccccata ctttccatca atgaccgctt 180
 cagtatgtga aaaccagcc cttcaaccct acaggctcca acaagcaatc gcaacaagca 240
 acttaccttt atcacccctg ttctttcaac aatcgccagc cctatctttg gtgcagtcac 300
 tggtaaaac catcagggca caacagctgc agcaactcgt gctaccagtg atcagccaag 360
 tagctctggc aaacctttct ccctactct 389

<210> 7696

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-006-Q1-E1-A4

<400> 7696

aattccaggg ccgaccgacc cgtccaccaa gctgctgggc cgcactact acacggacac 60
 cagcaaggac agccccgggt cgctgccgcc caacgtcgcg gcggcggtca acggcgtggc 120
 cttctgcggc acgctggcgg ggcagctctt cttcggctgg ctgggcgaca agctggggcg 180

caagagcgtg tacgggatga cgctcatggt catggtcatc tgctccgtcg cgtcgggcct 240
ctcgttcggc cacaccccca cgggggtcat ggccacgctc tgcttcttcc gcttctggct 300
cggcttcggc atcggcggcg actaccctct gtcggccacc atcatgtccg agtacgccaa 360
caagaggacc cgcggcgctt tcatcgccgc cgtcttcgcc atgcagggct tcggcatcct 420
cgccggcggc atcgtcacgc tegtcatctc cgccgcct 458

<210> 7697
<211> 447
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-006-Q1-E1-A7

<400> 7697
tcccgggccg acccacgcgt caggggtggag cagcatctgc tccagctccg gcgccacccc 60
gaccggcacc gtcctccggc gtcgcccgc gccgtcgctg tccaggaacc gcacgggtccg 120
cttcggctgg ccccgcgctg acggcgtctc gctgaggcag gagcgcgagc aggaggacgc 180
cgacggcggc gcgcgcctgc cgctgaagat ggcgttgagg aaccccgcca gccgcgcgcc 240
ggggccgggg gacgccggct tgccggcgag gtccctcagc ctggcgcgga tgctgacgcc 300
ggccttcttc ttctccggcg cgagtgcggg cgcggccacg gccaccgcgg tggtagcgag 360
gctcgtgctg atgggcccga ggcgccggtg ctgcgacgac tccgcctccg acgacgagaa 420
cccgccgtag ctggagcact gatcggg 447

<210> 7698
<211> 391
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-006-Q1-E1-A9

<400> 7698
ccgggcccgc ccacgcgtca acccacgcgt ccgcggacgc gtgggtgtgc agaaaagcaa 60
gattttcttc attgcctggt ccccatcgac atcccgcata cgtgctaaga tgctgtactc 120
cacgtcgaag gaccgcatca agtacgagct tgacgggttc cactacgaaa tccaggcgac 180
cgacccatcg gaggtggaca tcgaggttct ccgggagcgg gctcactgaa gctgggttctc 240

cttttgaagg gacctgtgga gggccgtgaa ccttcagcca gatgcaaatt caattatcaa 300
 cgatgaagct cccgccgtgg tgtttgttaa taagttcctg taagcatatc atttagtcgc 360
 tatgcatgac actagctgaa gcgctatcta a 391

<210> 7699
 <211> 440
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-006-Q1-E1-B1
 <400> 7699

tgcacccgcc cgtccggaac aacaaatcaa aagcgtgac agtcgggtgc caacaaaacc 60
 tcaacaacca agtttcatgt ctgatctcga cgtccagctt ccatctgcct ttgatccgtt 120
 tgctgaggca aatgctgagg actctgggtgc tggctctgga acgaaggatt atgtgcatgt 180
 gcgcatccag cagcgcaacg gcagaaagag tctgactaca gtccaggggtc tgaagaaaga 240
 gttcagctat aacaagatcc tcaaggatct gaagaaggaa ttctgctgca atgggtactgt 300
 agttcaggac ccagagctag gccaggtcat tcagctccaa ggtgaccagc gcaagaatgt 360
 tgctactttc ctagttcagg ctgggattgc caagaaagag aacatcaaga ttcacggggtt 420
 ctaaaggacc tgtaaattgct 440

<210> 7700
 <211> 432
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-006-Q1-E1-B12
 <400> 7700

ggtccagaat tcccgggccc acccacgcgt ccacggacgc gtggggcagc ccggcggcaa 60
 ggtcacccctc gcggcgggtgg agaggatgga gctggccaag tcggtggtgt gggagtcgct 120
 gcgcctggac ccgcccgtca agttccagta cgggcacgcc aagaaggacc tgctgggtgga 180
 gagccacgac gcggtgttcc aggtgaggaa aggcgagatg ctgttcggct accagccgtg 240
 cgccaccaag gacccccgcg tgttcggcga cacggccggg gacttcgtgc ccgaccgctt 300
 cctctgcgag gagggcagca agctgctgca gtacgtgtac tggccaacg gccgcgagac 360

cgacaacccc agcgtcgaca acaagcagtg ccccggaag aacttcgtgg tgctcgtcgg 420
caggctcctc ct 432

<210> 7701
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-006-Q1-E1-B4

<400> 7701

gaccgacgcg tcaagagggg cagggcagag caggagagag aaattcgata gggttcccat 60
gccccctccc caccggccac cacttgccaa gcgaaagcgg gagtgaagga ggggagagtc 120
ccatttcccc aagccctaca cgagagaaaag agagagaggg gggagcagag gagcacgcta 180
cgagagaggg aggtcgaggg agacagcaga ggctgcagca gaggccagaa gcattagaag 240
cggcagttgt aaccaagtgg catcagaaga tagagccagc catccgtcta tccatctatc 300
tagctctaca ggtataaatc ctcgcgcatc ggtagggggc gaggggagga cccggaaccg 360
gaggggattt ctcgggggtg gagtggcggc caggacctct gattgggctc cagtgcgcga 420
tctttgaacg cagatttggt gcc 443

<210> 7702
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-006-Q1-E1-B5

<400> 7702

cccgggccga cccacgcgtc agaacctccg tcatacgcga cctctcccca acggcgccga 60
cgatggcgca acagcagacg cagctaacca ctggctcggg catcctggat gccgtccgc 120
tcttcgtcgt catcctctc gcggcccacg tcttgccct cgtgttctgg atgtacaagc 180
tggcttccga gaagcaacca ccccgagga agacacagtg acggcgccga tctacgcat 240
cggcgatcct tcgctagcct ctttatcggg tccattttca tgtgaaccag taccctccag 300
aacattcagg ccgtcaatta ttcagagata tccatatagt ctttcaattt gttttattta 360
tacttattgc attttgggta ttgtttgata acaacttagc gatattctat gaatcactat 420

ccgtttgggt gataaataaa tg

442

<210> 7703
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-006-Q1-E1-C1

<400> 7703

attccagggt cgaccgacgc gtccggtaca acaattctgc tggccaacag agcacaattg 60
ctggaattga ggctcagatg ggtgtcttgc actatatattt gggcaattat ggcgagtcac 120
atgattcctt caagagtgcg attgcaaagc tccgcacctg tggtgagaaa aagtctgcct 180
tcttcggaat tgcctgaac cagatgggat tggcatgcgt tcaaagatat tgcataaatg 240
aagcagcaga attgtttgag gaagctagaa cagttctgga acaagaatac gggccttacc 300
atccagatac tttaggagtg tacagtaatc ttgctggaac ttatgatgca atgggcagac 360
ttgatgaggc catcgagatc ttggaatatg ttgttggaat gcg 403

<210> 7704
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-006-Q1-E1-C10

<400> 7704

ccgggcccgc ccacgcgtca gcggacgcgt gggcgctgtt accggaggcc ttcaagggaa 60
tcaaacagat cggcgtaatc ggctggggct cgcagggctc tgcgcaagct cagaacttga 120
gagactcact tgttgaggca aagtcagata ttgttgtaa gattgggtctc cggaagggtt 180
ctaaatcttt tgaagaagcc cgagcagcag gattcaccga agagagtggg acgctgggtg 240
atatatggga gactgtatca aacagtgatc ttgttttgct actgatattt gattctgctc 300
aggctgataa ctacgagaaa attttctcgc acatgaaacc aaacagtatt cttgggtttgt 360
cacatggatt tctccttga catttgcaat ctctgggttt tgatttcccc taa 413

<210> 7705
<211> 363

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-006-Q1-E1-C11
 <400> 7705
 gaccacgcg tccaccacg cgtccgccca cgcgtccgcc cacgcgtccg cccacgcgtc 60
 cgccgacgcg tgggcggacg cgtgggggttt gtcatacttg ccagtgatgg attgtggaag 120
 gtaatgaaca agcattaagc agtggatctc gtgaactcaa ccaaggatcc acaggcaaca 180
 ccgaagcgat tgaccactga aacgttggca aggaatagca aggatgatat ctcttgcat 240
 gtcacccgtt tccgtgctg agttaccctc tctcaacggc actgaaacc actcatcgcc 300
 tcatgattta gattgagaca atttgtcttt gcccaatttt ccgatagaat atgctgtacc 360
 tat 363

<210> 7706
 <211> 421
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-006-Q1-E1-C12
 <400> 7706
 ggtctagaat tcccgggccc acccacgcgt cagcaaatcg acctgatgtt ctggacccgg 60
 cgctcctgcg tcctggacgt ttagatagga agattgaaat tccgctacc aacgagcaat 120
 caagaatgga agttctaaaa atccatgcag ccggtatcgc caagcatggg gagattgatt 180
 atgaagcagt cgtgaaacta gctgaagggt tcaatggggc tgatcttcgg aacgtgtgca 240
 ccgaagctgg catggctgca attcgtgcag agagagatta cgtagtcac gaagacttca 300
 tgaaggctgt gaggaaacta aatgatgcaa aaaagctgga atcgagtgcg cattacagt 360
 cagattttgg caaagagtaa tgatgctgat gccgatgcaa cggacaaatg catttggcat 420
 g 421

<210> 7707
 <211> 455
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-006-Q1-E1-C3

<400> 7707

attccagggc cgaccgaccc gtccacggac gcatgggctg gtaataacca taaggctagg 60
aaaaagtcaa ggggtgggtgt agaagagtca cagcagcaga aagttcaaaa aaataaaagc 120
aaggtgtctt cacggggccg caaaagaacc ttgaaggatg aaacggcaga gaagcctgag 180
aagaagctaa cccacaggat acgtcagagg ataacaaaag aggttaaggc tttactggaa 240
acacctcgtg agcagataaa acccatgaag ctaagcgcac cacatctcag gttgttataa 300
gaagctagag agcgtgttaa tccaaaaggg attccatccg ggccatcttc taatacaaga 360
aactttcaac tagatgatat ggatgatttg ggctacagag atgaggaaga taggtttctt 420
gacaacgata caacagagga gcatgtacaa aatgc 455

<210> 7708

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-006-Q1-E1-C5

<400> 7708

ggtctagact tcccgggccc acccacgcgt caggctcagca attgatgatg agatggtcac 60
aggctggcgg aaccaagta tttctttcaa tggccgtctc tattcagctg actgccggga 120
tggctgcaag cttagagtcc atgatgagaa cacaggaaca tggacaaggc tcatggacag 180
caagcaccac ttgggcagct cacgtgcctt tgaagctgca gctttgggtg cactaaatgg 240
gaaactctgt gtcacagga acaacatgag cataactctt gttgatgtct ccaaccaaac 300
aatgagtgtt gagacagata gtgcgcgcac gtgggaaact gttgttcgga agggccagca 360
caggctggtt gtggcgaact tatggctcag cattgcagga cggaacttaa agagtcacat 420
tatccattgc catgtgctgc aagtttg 447

<210> 7709

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-006-Q1-E1-C7

<400> 7709

cccacgcgtc cgcccacgcg tccgaagaaa ctactagctg gtaccctaata aataattctg 60
ctggctgcgg cgatcccaa ataaaagagg cagggtgcga tgcacgcgg tcttctcgac 120
tctcgagtgg tgtttgcgtt agacagccag ccaactgtgtg gctagtgttc caacatttgt 180
cagcctgctt gcgcgaggaa gtgggggtga ctgactcaag agaagggcct ggtcataggc 240
tgctgcatta tgaatttctg atcatgtctt atgtctgtac tctgaatcaa ctatgtatga 300
gatctcatct cctttctcct actgaatgaa tgaatcatta ttggcttgct taaaa 355

<210> 7710
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-006-Q1-E1-C8

<400> 7710

accacgcgt cgcctctt ttagattgct tattagtgt aattcaataa taaagttttt 60
tgatgatgt atgtggccaa ccagaaataa gaagttacat ttcaaaaaa aaaaaaaa 120
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaggggg 240
ggcccccaa aaggattcaa ccaaatttc cgttaaagg aaatttaaac cctccaaaa 300
ggcccccaa aattcaattc aagggccttt ttttaaaaa gtcttaacgg gaaaaccct 360
ggctttacca aactaaaacc cttggaaaa aaacccct 399

<210> 7711
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-006-Q1-E1-C9

<400> 7711

tccgggccg accacgcgt caggcgttac gacacagtga acgacgacga cggcgacggc 60
gccgtggccg aagacgtcaa gccgtgccg gcgccggcgg cgtcgaagaa cccgcgtgcc 120
agtgcccgcg taggggcagc agcggcggcg ccgatgaagg tggagctccc cgagtacggc 180
ggcggctact acgactacga cgacctggag acgccgtcgg cggggatgct gtgcttcgac 240

cgcccgtcgg ccccggcgcc cgccgaccgc gactcaaaca actccgtgcc gtggacgacg 300
 caccacacgc acacggacaa ctccagcagc ggctccgagc gcggtgctctc gccgtcgccg 360
 gacctgcccc accgcgacca cgccgagagc cagccccgcc cgcgccgg 408

<210> 7712
 <211> 439
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-006-Q1-E1-D1
 <400> 7712

attccagggt cgaccgaccc gtccaccaag atacaggaca aggagggcat ccctccggac 60
 cagcagcggc tcatttttgc cggcaagcag ctccaggagc ggccgacgct ggccgactac 120
 aacattcaga aggagagcac cctccacttg gtgctgcgtc tcagaggtgg catgcagatc 180
 ttcgtgaaga cacttactgg caagacgata acccttgagg tggagtcctc agacaccatt 240
 gacaacgtca aggccaagat ccaggacaag gagggcattc caccggacca gcagcggctg 300
 atcttcgccg gcaagcagct ggaggatggt cgcaccttgg ctgactacaa catccagaag 360
 gagagcacc cccacctggt gtcctgcctc aggggtggta tgcagatttt tgtgaagaca 420
 ttgactggca agaccatca 439

<210> 7713
 <211> 382
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-006-Q1-E1-D10
 <400> 7713

ccgggcccgc ccacgcgtca gcggacgcgt ggggtgcaat ctttctctga attgtgggctc 60
 tccgagaatg gcggcgctcg ctccatccaa gattctgggc acccagctca acttcgcccc 120
 ctctccccc tagccaccg cagcgcaccac cgcgggggct cagaatattg tctccctttt 180
 cagcaagaag cctgcccaga agcccgaagc cgctgcggta tcgtcgtctt ctccagacat 240
 cagctacgag ctgcgcaagt ggtatggtcc tgacatgagg atctatctgc cggatgggct 300
 gtcggaccag tcggacgttc ccgattacct catcgagag gtccctgaag actatggcta 360

cgaacctttt ggcctgggca at

382

<210> 7714

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-006-Q1-E1-D11

<400> 7714

ggctctaggac tcccggggccg acccacgcgt ccaccacgc gtccgcggac gcgtgggggc 60

tgagggagct caacaccctc aagggtcacg tggagtcggt ggtcaagctc aagggcctgg 120

acatcgacac catccagcag aactacacgg tgtgagagcc cctctgctgc gatgtcgacg 180

acaacacctt tgctgcccga cgggagccat ctgattacag ataaaaattt tcctagctgt 240

aaagctctat accaccagat actgccatat gatggtatgg ttgggtaccc gtctttctag 300

ggagtttctt ttctctctct cttttttcct attgttatgt ttttcaatag tggagtgtgc 360

gcgtgttgta atcgttttta cctgcgtttt t 391

<210> 7715

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-006-Q1-E1-E11

<400> 7715

ggctctaggac tcccggggccg acccacgcgt ccacagcaat ccacacaagc acttcgacgt 60

cgcacggggc ctgcacacag acacaccaag cgtcggcacc aatgggttac taccaggagg 120

tggactactg ctcgaggagg gtgaggtcgg tggccccggc cggcttcggc cgccacggag 180

gcggcgtcca gcagcacgtc gtcaaggaga agttcgagga ggtcgacacg gtctcacgcg 240

ccggcgccaa ccaccaccac caccaccatg gtcaccacgg cggccacggc ttcgtggtgc 300

gcgagaccag ggtcgaggag gacatcaaca cctgcaccgg cgagggtccac gagcgaggg 360

agagcttcct cgccaggggt aactgagccg cccggcggcc ggcatccacg cccgtt 416

<210> 7716

<211> 449

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-006-Q1-E1-E6
 <400> 7716

tcccgggccc acccacgcgt cagcctccct ctctctgcc gccgtcaccg ccccttcctt 60
 cgccgcaccc gcaccagccc ggcgcgtggt cagaaggagg tccttcaccg tgcgcgcctc 120
 tctccgcaag gccaccggca ccgcccgcgt ggcaatggct gccagcgccc tgcttgccgg 180
 cggtgccatg gccaggagg tgctgctggg cgcaggcgac ggccgggctcg tcttcgagcc 240
 cagccagttc accgtcaagg ccggcgacac catcacattc aagaacaacg ccggcttccc 300
 gcacaacgtc gtcttcgacg aagacgaagt gccgagcggc gtcgacgcca ccaagatctc 360
 gcaggaggag tacctcaacg cgccaggcca gacctactcc gtcacccctca ccgtgcccggg 420
 aaactacggc ttctactgcg agccgcattc 449

<210> 7717
 <211> 458
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-006-Q1-E1-E8
 <400> 7717

ggtctagacc tcccgggccc acccacgcgt cagggcgcac agcacacgaa cacacaccgc 60
 gccagctcc gaggtgatct tccggcgccc ggcgagatga gccgtggcac aggcgcgggc 120
 tatgaccgcc acatcaccat cttctcccc gagggacgcc tgtaccaagt cgagtacgcy 180
 ttcaaggcgg tgaagtcggc ggggtgtcacg tcgatcggcg tccgcggcgc ggactccgtc 240
 tgcgttggtta cgcagaagaa agtcccggat aagttgctgg atcagacgag cgtgacacac 300
 ctgttcccga tcaccaagta cgtcggattg cttgccactg gccttacagc tgatgctagg 360
 tcattgggtt cccaagcaag gaatgaagca gctgagtttc gtttcaaattg gggctacgag 420
 atgccagttg atgtgttaac aaaatggact gctgacaa 458

<210> 7718
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-006-Q1-E1-F1

<400> 7718

attccagggt cgaccgacgc gtccggtcca tgcagtaccc tttctggtgt tgcttctgat 60
aatcttatgg cacattcaga tatttttcaag atagaggttg ggcgcaatga agctgagaag 120
aattctatct cgaaaagggc ttccgtgttt ctgaaatgga tctggagaga gtgctacagt 180
caccaatcta catacgccat gagatatgga aagaagcggg gtcctgagtt gattcactct 240
tgtgattatt gctaccagat atacttagct gaagaaaggc actgttcttg ccacaaaaca 300
ttcaaacaca ttcacaatth cttggaacac tcatcacaat gtgaagaaaa acaaagaaca 360
gatcccaatt ggaagatgca aactgtggac ctttctgtac ccg 403

<210> 7719

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-006-Q1-E1-F11

<400> 7719

gggtcaaggac tcccggggccg acccacgcgt ccaccacgcg gtccgcccac gcgtccgcgg 60
acgcgtgggc tgggtgtgta aggcagccta tgcggtcaag gggactgctt gctcggcctt 120
atattcattc aatgcttgct atagcagcag tctgcgtatg cgtctgtgta ttcattgcag 180
ctttgctgcg gatcaattct ggaaaatcct tcaagtggga gaggctggat tacggtacag 240
tataattgtg gggacacacc tgagccttgt ggtattatta agttaacagg cagttgttat 300
ggagctatth tggagccttg aagggtatgg agattgtttc atgcttcctc gagactcgcc 360
catccgtatg gctgagtgga ataatgtaat atttttgctg gacaattcct ttacttcctg 420

<210> 7720

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-006-Q1-E1-F12

<400> 7720

cggctctagac ctcccggggcc gaccacgcg tcagcggacg cgtgggcgtg tccccaaaat 60

ccgatatgct gggatgcttc agtatgatgg tgagttgaag cttccaagcc gttaccttgt 120
 ttccccacca gagatagata gaacatctgg ggagtacttg gtgaagaatg gcatccgcac 180
 ctttgcttgc agtgagacag ttaaatttgg ccatgtcaca tttttctgga acggtaccg 240
 ttccgggatac tttgatgcaa ctaaggagga gtatgtagaa gtacctagt acagtggat 300
 tacattcaat gttgcaccca atatgaaggc gcttgaaatt gctgagaaag ccagggatgc 360
 tctcctaagt ggaaagtttg accaggtacg tgtcaacctg ccaaattggtg aca 413

<210> 7721
 <211> 453
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB189-006-Q1-E1-F2

<400> 7721

attcaagggg cgaccgacgc gtccaccac gcatccggct tggcaagatt ggtcgaccgg 60
 tcgagtcatg gcttccatct ctggcatgct ccctaccgag atcacagccc tccgtgatgg 120
 tagactcacc catcttctctg ccaaggacct ggtgaacgga gatatcgccc aagtgtcatt 180
 aggtaacaag cttcccgccg atcttcgctt tgtcgacgtg tcctcggacc tgagactgga 240
 ccgctctgtg ttgaccggag agtcagagcc tatccaggga accatcgagc agacggacag 300
 caacttcctc gagagcaaga acgtcggact tcagggtaca ctttgtgtcg gcgggtccgg 360
 tacagggtgtt gtcattcaaa cgggcgatct caccgttttt ggtcgaatcg ctaagctctc 420
 atcctccggg gctccatcgn atgacactct gca 453

<210> 7722
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-006-Q1-E1-F3

<400> 7722

aattccaggg tcgaccgacc cgtccaaatg gccactctac cttagcacca aaaacacaat 60
 cctgaaaaaa tatgatggca ggtttaagga cattttccag gaggtctatg aagctgactg 120

gaagtccaaa tttgaggctg ctggaatatg gtatgagcat cgtcttattg atgacatggt 180
 tgcgtacgcg ctttaagagcg aaggaggcta tgtgtgggct tgcaagaact acgatggaga 240
 tgtgcagagt gatttcttag ctcaaggttt tggatctttg ggtttgatga catcagtgtt 300
 ggtgtgccct gatggaaaaa ccatcgaagc tgaagctgcc catggcacgg ttaccctca 360
 tttccgtgtc caccagaaag gaggcgaaac cagcacgaac aacattgct 409

<210> 7723
 <211> 445
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-006-Q1-E1-F6
 <400> 7723

ggtctagaat tcccgggccg acccacgcgt cagcttgaa gagaaagtgc ctggccgagt 60
 ttggtattgt cacacagtgt ctagctccat taagagtcaa tgatccgtac ctgcttaatt 120
 tgctgatgaa gatcaatgca aagcttggtg gtctgaactc gttgctgcaa gttgaagcat 180
 cttcgtcaat accacatgtg tcgcaagtac ccaccatcat cttaggtatg gatgtttcac 240
 atggtcatcc aggacaagat agaccttcgg ttgcagcggg ggtagttct cgtcaatggc 300
 ctcttatctc tagatataga gcatcagtgc acaccaatc tgccagacta gaaatgatgt 360
 cctcgttggt taagccgcgg ggtactgatg atgatggcct catccgggaa tcaactgatcg 420
 acttctacac tagctctgga aagcg 445

<210> 7724
 <211> 456
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-006-Q1-E1-F8
 <400> 7724

ggtctagaat tcccgggccg acccacgcgt cagctcacgt gatcagggat ccttggttgc 60
 ttttgaagat ggaagcacta cttcttatgc acttcttaat gcacaagaaa gaggtatgtt 120
 gtttgtccaa ccagggcagg atgtttacaa aggtcaaatt gttggtatcc atcagagacc 180
 tgggtattta gcaattaatg tgtgcaagaa aaaggctgct acaaagtgtc gttccaacaa 240

agaaactaca gtggttcttg atgaaccttt aagctacagt ttggatgact gcatagagtt 300
 tatccaagaa gatgagatag tggagggttac tctgcaagc atccgtatgt gcaagaaccc 360
 aaaagtttcg aagaaaaagt aacataatcg catccatttg tcgtcaatgc atcttctaca 420
 catagaagct gcatgctccg ttgccaggtc tcgtat 456

<210> 7725
 <211> 451
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-006-Q1-E1-F9
 <400> 7725

ggtctaggac tcccgggccc acccacgcgt ccaccaagc gtccgcccac gcgtccgcct 60
 gcctcgagtt cagcaaggtc ggcttcgtgt accgcgagaa ctccacctcc cgtgctact 120
 acgacggccg ctactggacc atgtggaagc tgcccatgtt cggctgcaac gacgccaccc 180
 aggtgtacaa ggagctgcag gaggccatca aatcctaccc ggacgccttc caccgcgtca 240
 tcggcttcga caacatcaag cagacgcagt gcgtcagctt catcgctac aagcccccg 300
 gcagcgacta gaccgcgccc gccggccgcc cccgcgggc tagctagcta gctagctcct 360
 gcgtgagcta gtagctagtg ccatgcgtcg tctctgtcgt tcggttttgc ttcgggtcac 420
 cgtgtaccct ttgcctgcct gggttcctcc t 451

<210> 7726
 <211> 377
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-006-Q1-E1-G10
 <400> 7726

cgcgtcaaca gagctcgtcg ccaccggcca ccgccaccct cgatcacgcc gtccgtcgag 60
 gtaaggtcag catggtgagg gtcactgtgc tcaacgatgc gctcaagtcc atgtacaacg 120
 ctgagaagat cgggaagagg caggctatga tcaggccgtc gtccaacgtc atcatcaagt 180
 tctgacggc caagcagcgc caccggctaca ttggagagtt cgagtacgtt gatgaccacc 240
 gatcgggcaa gatcgtgggc gaactcaacg ggaggctgaa caagtgcggc gtcacacgcc 300

ctcgctttga tatcagcgtg aaagacattg agggatggac tgcaacgctg ctcccgtcga 360
ggcaattcgg atacatc 377

<210> 7727
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-006-Q1-E1-G2

<400> 7727

attccagggc cgaccgacgc gtccacccac gcatccgcgg acgcgtgggc tctgatccgg 60
gagaattctg gcttcacctt cctacaccaa agaaaggact aacaggggtgg tccttccagc 120
tgcatgtccc tttttgcaca ttctttttct ccgctcaacc tgtgcataac tcatgtacat 180

acgctcgtgc cttttgctct ctggtcaggg cttgttagat gtattgtctt tggtttgatt 240
ggttggttgg ttctttcctc gatcctctcc caattttgtt gggcgaaggg tccacaatct 300
atgtttctcc atactgtagt gaaaaggggc cggatgcccc tggctcccc gagctgcttt 360
tggaaaagct cgtggtcatt aagcagttaa gcttgtggaa aaggttctcc acatctaccg 420
agtcgttcgt tgtgtgcct tcttc 445

<210> 7728
<211> 73
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-006-Q1-E1-G4

<400> 7728

cctaaaaggat ccaaccttac ttacccttgc atgcaacgtc aaacccttc aaaagtgtca 60
cctaaaattca att 73

<210> 7729
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-006-Q1-E1-G8

<400> 7729

ccgggcccgc ccacgcgtca gccgcagtt cttcctcgtg ggggcgggcg aggcgttcac 60
gtacatcggc cagctcgact tcttcctgcg cgagtgcgcc aaggggatga agaccatgag 120
cacggggctg ttcctcagca ccctgctgct gggattcttc gtcagctccg cgctcgtcgc 180
cgccgtgcac agggtcacgg ggcaccgcca cccctggatc gccaacgacc tcaacaaggg 240
ccgcctcgac aacttctact ggctgctcgc cgccgtctgc ctgcgcaacc tactagtcta 300
cctcgtcgcc gcccgctggt acaagtacaa ggcgggcccgc cccggcgccg acggcagcgt 360
caacggcgctc gagatggccg acgagcccac gtcactga tccatccatg ttcgatcgat 420
cgacgaggca cgcgacggac gaccct 446

<210> 7730
<211> 367
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-006-Q1-E1-H1
<400> 7730

gttcagaaca tcacaatcca agtactatct tcttggtaat agttcaatac acaccaatt 60
ttttttaatt atcatggtat caacttctcc agttaaaaaa atgaatagct tagaagtcac 120
tcaactgtcac tggtagtggt agtacaacac aaccggcaca gatggggaaa gaaaactgta 180
gtatcatcga cgagtttcaa tggaaatccc tcttaggcct gtagacgctg gttcgggttt 240
cgaagtacct ttcaacccta aagacctctc aaaagactaa aggcataatga tgagctaaac 300
gcctcttcag atcacagcag ctggcaaagg cgacatgatg tgccttcctt actgctgaca 360
tcaccaa 367

<210> 7731
<211> 73
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-006-Q1-E1-H11
<400> 7731

ccaaaaggat ccaaccttac ttacccttgc atgcaacgtc aaacccttc aaaagtgtca 60
ccaaaattca att 73

<210> 7732
 <211> 272
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-006-Q1-E1-H5

 <400> 7732

 ctttgcgtgt cctttttgtt cagaacatcc accctccaag tacgagtttc ttggtaaggg 60
 cttcaataca cggccacttt tttttaatta gcagggcacc agcttcgcga gttaaaaaaa 120
 tgagcagcct acaagtcacg cacgtgtcac tggtagtggg agtagaacac acccggcaca 180
 gatggggaaa taaacctgtg gcagcaacca cgagtttcac tggaaatctc tcctaggcct 240
 gctgagcctg gctcgggtttt cgaactacct tt 272

<210> 7733
 <211> 450
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB189-006-Q1-E1-H6

 <400> 7733

 ggtctagaat tcccgggccg acccacgcgt caaagagaat taaaaatcct aactacaagg 60
 gtaaattggaa gaccccatgg atcgataatc caggtaagca aataaaaaatc ctaactgctg 120
 attttgaatg aaaccacact taagctttta agatcaggcg ctgtcaactg tattatTTTT 180
 gcagagtttg aggatgatcc agatctttat gtgctgaagc ctttgaagta tattggaatt 240
 gaagtttggc aggtaaaagc tggttcagtt ttcgacaaca ttctgatttg tgatgaccct 300
 gagtatgcaa gaaaggttgt tgaggaaact tggggtgcaa atanggaggc tgaaaaggaa 360
 gcttttgaag aagctgaaaa ggagaagaaa gctanggaag atanggaagg tcaaaaggca 420
 naggacgatg gtggccggca tcgaatacac 450

<210> 7734
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-007-Q1-E1-A10

<400> 7734

ggtaccggtc cagaattccc gggccgaccc acgcgtccac ccacgcgtcc gacgacaccg 60
cgttcagccg ctctagaacc ctagctcccc gccccgcgag atggccactg ccgacggcga 120
gccccagccc gtggccaccg accccgcccga ggtccaggct ccgggtccgg caccggcacc 180
ctaccctccc ccggccaagc gcaagcccga ggcgatgctg gaagccgacg ccaacctcgc 240
gccccctaaa gccgcgcgtc ccgacgtcga cgaggaggcc gccgctatgg ccgaggctgc 300
caaggccagt gctcgcgcgg ctgacaaggg taagggcaag atggtagtgc aggaggagga 360
ggaggaggag gaagacgaca gcgaggagag cagcgacgac gacgagggcg gcgggccgcgg 420
cagcagcagc gatgacgacg agct 444

<210> 7735

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-007-Q1-E1-A12

<400> 7735

taattgttta ccatggacca gattttgtta ggaagatctg atgttgcagg ttggggtgca 60
ttcattaaga atcctgtaaa taaaaatgat tatcttggag aatatactgg tgaattgatc 120
tctcacaagg aagcagacaa acgcggcaaa atttatgacc gggcaaactc atcttttctg 180
ttcgatttaa atgaccagta tgtgttggat gcttatcgca agggggacaa attgaagtcc 240
gcaaactcact catctaacct caactgctat gcaaagggtga tgctggtggc tggcgaccat 300
cgggttggta tatatgcgaa ggagcatatt gaggctagcg aggaactctt ttatgattat 360
cgttatggac ctgaccaggc tccagcttgg gct 393

<210> 7736

<211> 408

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB189-007-Q1-E1-A2

<400> 7736

gggccgagcc acgcgtccac gctcggcctg ggccctcgggc tcttcccggc gacggtggcc 60
 acccagccgt gctgttcct ggacccggcg ccggtggaga gggaggaagg ggagcgggag 120
 cggagctgct gctcccggtc gccgccgtcg gtgctggcgg gcctcggggt cgacttcgac 180
 ctcaacctgc ctccgcccgc cgagatggtc atgtagcggt ggagatagta attctagcaa 240
 aaagggattg tgtagtaaat aggaagggca atcggtttgt gtagtactac tggccagttt 300
 gcctgtgcac tagccactag ccaatttgcg acttcgcaat gcaaagcang aatgaatcg 360
 acgggcacat attttttccc cccctgcnna aaattgcagt ggcattggc 408

<210> 7737
 <211> 353
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-007-Q1-E1-A4

<400> 7737

gggccgagcc acgcgtccac ccaaacgtcc gccacgcgt ccgaagcaac atagaaagt 60
 gaatcagtag caacaataaa agaacaaatg ggcaccaaag atattttccc tcctttaggc 120
 ccttgctctt ttcaaagtgt ttgctaacgc gacaattttc cctcaatgct cacaagctcc 180
 tatagcttcc ctttttcccc cataccttcc atcaattata gtttcaatat gtgaaaaccc 240
 agctcttcaa ccatataggc ttcaacaagc aatcgcagca agcaacatac ctttatcgcc 300
 cttgttggtt caacaatcgc cagccctatc tttggtgcag tcattggtac aaa 353

<210> 7738
 <211> 279
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-007-Q1-E1-A6

<400> 7738

ggtaacggtc aggaattccc gggccgaccc acgcgtcagc ggacgcgtgg ggggacgcgt 60
 ggggccgaag gaagttttga acttctgatg ttgtatatga atcaatttgc cttaaactcg 120
 cgaggggaaa agaggagaaa aatggtaaaa tatggacaga attcgacggt atatcatgtt 180
 atattgtacc tacctacatg acatgggaca tgaaataggg ctgagacatg cgctatggaa 240

cttgggaatac acacaaacct aacacgccac atgctgcac

279

<210> 7739
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-007-Q1-E1-A7

<400> 7739

gggccgaccc acagcgtcag gaagaaccca gccaaatcct cagtcctcag gctgctcgca 60
gctcgtgccg tccactctcc cccgagggcat tctcttgctg tcgctgctcg acatggcgct 120
ccaggcgggcg acgtccttcc tcccctctgc cctctccgcg cgcaaggagg ggtcggtgaa 180
ggactcggcg tcgttcttgg gtgttcgtct cgcgggcgat gggctcaagc tggacaccac 240
cgctctgggc ctacgcaccg tgagggtgag caggctggcg gacatccgcg cgcagacggc 300
agcgggtgtcc tccccgtcag tgaccctgc gtcgccgtct ggcaagaaga ccctccgcat 360
tggcacggcg gtcattcatg gcgcgtcgtc cggcctcggc ctgccacgg cg 412

<210> 7740
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-007-Q1-E1-A8

<400> 7740

aattccccgg ctgacccaaa cgtcagaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaagaaaga cgaacaaata agataaaaac ttaagtaaac ataaaaagta aaaaaataaa 120
tcttcaaaaa aaaaacaaaa aattcaattc ggggggctgc ccataaagat tctacattaa 180
tgtgaccgtc atggagttat caaacttatt caacttgac accaaattcc atttcactag 240
gtgggtctttt taaacattct gaacggaaaa atcctgggtc taaccaattt taaccctttt 300
gtagcaaata ccactttccc aatatcggtt tatatgacaa aggcgttgct gtttgcctt 360
tcaaaatatt tgctaaac 378

<210> 7741
<211> 359
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB189-007-Q1-E1-B1

<400> 7741

ggtcgacgca cgcgtccacc cacacgtccg cccacgcgtc cgcccacgcg tccggtgccc 60
tgcaggagtc gtcgcccacc aagctcgcg cgggatgac cgcaatgagc agggcaaccg 120
acaacgcaat cgagctcggc aggaaccct ccatcgcta caaccgacag cgccaggcca 180
agatcaccgg ggagatcctc gagatcgctg ccggtgccga cgccctcgct ggctgagcct 240
gagtencctt ggtggtgcgg tgctcctgct atatataatt ctttttctc attttctcca 300
ctctgcctgt aattcctgat aatagcaca acgcaacgga gttctgtgtt ccttgcgac 359

<210> 7742

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-007-Q1-E1-B11

<400> 7742

ccgggcccgc ccacgcgtca gccacgcgt ccgcccacga cgggctcctg gtctgggact 60
ccatcaagca gtgggctcc gagtacgtca acgtctacta caagtccgac gaggccgtgg 120
ccgcccaccc cgagctgagg gcgttctggg acgaggtgcg caacgtgggg cacggcgaca 180
agaaggacga gccgtggtgg cccgtgctgg acaccgcga cagcctggtg gagacgtga 240
ccaccatcat gtgggtcacc tccggccacc actcggccgt caacttcggg cagtaccact 300
tcgcccggta cttccccaac cggccgacca ccatccgga gaacatgccg gtggaggagg 360
gcgggcccgg cgaggagatg gagaagttcc tcaagcagcc ggagacgacg ctgctggaca 420
tg 422

<210> 7743

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-007-Q1-E1-B2

<400> 7743

ccacgcgtcc acggacgcgt gggcggacgc gtcgggtaca tatctttgag gcagttcatg 60
acaacgacaa tcctatgcgg aaaccgcacc tacgcaagcg accctaagaa gcaactgggc 120
atccaaagaa cattataccc ctcccattgg gcttcctgcc cttttttgta gtgcaacaaa 180
tggcgtcatt attccacaat gctcacttgc acatagtgcc attattcgac agttcctccc 240
tccagttacg tcaatgggct tcgaacatgc agctgtgcaa gcctagaggc tacaacaagc 300
gcttgcgag agcgtcttag aacaaccaat tgccaatta caacaacaat ccttgggaca 360
tctaaccata cataccatcg caacgcagca gcaacaagca ctgagccaac taaccgtggt 420
gaacc 425

<210> 7744
<211> 432
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-007-Q1-E1-B7
<400> 7744

ccgggcccagac ccacagcgtc agcccacgcg tccgcccagc cgtgggcggc atcgactacg 60
ccgccgtcac cgtgcagctc ccggggggcg agcgcgtgcc gttcctcttc accgtcaagc 120
agctcgtcgc caccggcaag cccgagagct tcggcggggc cttcctcgtg cccagctacc 180
gtgggtcctc cttcctcgac cccaagggcc gcggcgggctc caccggctac gacaacgccg 240
tcgcgtccc cgccgggggc agaggtgacg aggaggagct ccagaaggag aacatcaaga 300
acgccgcctc ctccaccggc aacatcacgt tgagcgtcac caagagcaac ccggagaccg 360
gcgaggtcat cggcgtcttc gagagcgtgc agccgtccga caccgacctc ggggccaagg 420
cgcccaagga tg 432

<210> 7745
<211> 416
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-007-Q1-E1-C1
<400> 7745

gggccgagcc acgcgtccac ccacacgtcc gggccgtgct gcagggcctg ctgaaggtgg 60

tggcgggcat cgagatctcc ttcacgctga cgtccaagtc gggcggcgac gacgtggacg 120
 acgagttcgc ggacctgtac atcgtcaagt ggacgtcgct gatgatcccg cccatcgtga 180
 tcatgatggt gaacctgac ggcatcgcg tggggttcag ccgcaccatc tacagcgaga 240
 tcccgcagtg gagcaagctg ctggggcgcg tcttcttcag cttctgggtg ctggcgacc 300
 tgtaccggt cgccaagggc ctgatggggc ggaggggccc cagccgacc atcgtcttcg 360
 tctggggggg cctcctctcc atcaccatct cgctgctgtg ggtggccatc aaccg 416

<210> 7746
 <211> 258
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-007-Q1-E1-C10

<400> 7746

tattagetta attgcatgca tgcagcatga gatatactag cagtgatgga tcgtcacacg 60
 ctgcagaccc tgtcaccgat tcttaaactg cagacgatag aacttacatc catgcactag 120
 tggtagagat cctcatacct gacgatgtat gctctgatgt acttctacaa actcgcggtg 180
 ttagcgctac gggccatcct gttgtcaacg tttcagcgat gttggacatt tttggatatg 240
 taccacgcta tactgtca 258

<210> 7747
 <211> 76
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-007-Q1-E1-C11

<400> 7747

aaataggtct aaagtcttac tacgctgca tgcgaggctg tacctcttct aaagtgtcac 60
 gtaatttcac ttcaag 76

<210> 7748
 <211> 463
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-007-Q1-E1-C12

<400> 7748

ggtaacggtc aggaattccc gggccgaccc acgcgtcagt gctcgcggcc gacgtccacc 60
tcggcaccaa gaactgcgat ttccagatgg agcggatatgt ctttaagcgt cgcaccgacg 120
gcatctacat catcaacctg ggcaagacat gggataagct ccagctcgcg gcgaggggtta 180
ttgttgccat tgagaaccca caagacatca tcgtccagtc ggcccgcgcc tacggccagc 240
gtgctgtcct caagttcgcg cagtacactg gcgcccattgc catcgtctggg aggcacaccc 300
ctggtacctt caccaatcag ctccagacct ctttcagcga gcctcgcttg ctcatcctta 360
ctgacccaag gactgaccat cagccaatca aggagtctgc tctggggaac atcccgacca 420
ttgccttctg cgacactgac tctcccatgc ggtatgtcga tat 463

<210> 7749

<211> 413

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB189-007-Q1-E1-C2

<400> 7749

gggcccaccc acgcgtccac acagatcacg atgggagaat caactaccag gagtttggtg 60
ccatgatgaa gaataatagc cccgagattg ttcaaatacg aggcgcattg tttaaggctc 120
atctcctaca tttaattgga aaaaagaaag acttctaaga tatatttttc cgcggtcaga 180
ggggagagca actgatactc gaaagtggga ttcagcctgn gcatatgtgc aatgatatta 240
cagacttttg acaagtcacg agtcattggg gattgccttt gtgttgcttc catgcctggg 300
catatgtgca atgatattac agactttgga caagtcacga gtcattgggtg attgcctttg 360
tggtgcttcc atttttcgac atctcatcct acatttaatt ggaaaaaaga aag 413

<210> 7750

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-007-Q1-E1-C3

<400> 7750

gcgtccacag cgatcaagga ctgggaacag cagcactggc ggccaaggaa cctgaagcgc 60
 tccctttctg cgccatcgct tatagtttca cggggatttt cggcacgctg atctgctcgg 120
 ttccggcagt caggcaaagc ctgatattca tagctgggta agagatgac tgaatttgac 180
 ggtttcattc tttagataaa agaagcagct tgcttcctcc ctccgtgttc agaaggtcag 240
 gaagcaacgc cccacatgtc aggtcaggat tcaatatgtg taggggcttg aaaaaaaaaag 300
 gcgaataatt ctgtaatcag gatgtaaccg acatactaca gttttttttt tcttggtgaca 360
 aaatactact 370

<210> 7751
 <211> 454
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-007-Q1-E1-C5

<400> 7751

aattcccgga cgcaccacg cgtcaggcca gccaaagcct tcttacaagg gttttccaaa 60
 tgtttaacaa gatagagcct cctattcttc ttaagattct taggtgcatt aatcatttgt 120
 cgggtgatcc taattgtctt gagacacttc aacgcacaga tgcaatcaaa catctgatac 180
 cgattctgga gcttcgtgat ggacctctgg tttatcaa atacatagtgag gtccttaatg 240
 ctttgttcaa cctttgcaaa attaataaaa gaagacagga acaagcagcc gaaaatggaa 300
 tcatccctca cttgatgaaa tttgtcatgt cagactcacc tttgcggcag tatgccctgc 360
 ctttgcgtgtg tgatatggct catgctttct gcaactctag agagcagttg aggggtcatgg 420
 aggactagat gtgtacttaa atctgctgga ggat 454

<210> 7752
 <211> 434
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB189-007-Q1-E1-C6

<400> 7752

ccgggcccgc ccacgcgtca gccacgcgt ccggcatccc cctgcagtgc tggccacata 60
 atggcgaata agtccgctgc cgctgctatt ctgctcgccg ccgcccgtgct cggctgtctt 120

gtctcggcgt cgctcgccga ccagggcacc gccacctact acaccgtcta cactccgtcg 180
 gcgtgctacg ggaaccagga cgagggcacg ctgatcgcg cggcgagcga cgcgctctgg 240
 aacggcgcg cgcggtgcg caccatgtac acggtcacct gcgtcgcggg caccaacgag 300
 accccgaacc cctgcaacct cggcgcctcc gtcaccgtca agatcgtcga cctctgccc 360
 tcgcccgggt gccaggccac gctcgacctc tcncagcagg ccttcgccac catcggaac 420
 ctcggcgccc gcaa 434

<210> 7753
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-007-Q1-E1-C7

<400> 7753

gtcaggagtt cccgggccga cccacgcgtc aggacacat gaaggtgctg atcggtgccc 60
 ttgctctcct ggcgctcgct gcgagcgccg cctccagtac aagcggcggc tgtggctgcc 120
 agacaccacc gtttcatcta ccgcctcgt tctatatgcc gcctccgttc tatctgccgc 180
 cgcagcagca gccgcagcca tggcaatacc cactcaacc accgcagcta agcccgtgcc 240
 agcagttcgg atcctgcggc gtcggcagcg tcggcagccc gttcctgagc cagtgcgtcg 300
 agttcctgag gcaccagtgc agcccgcgcg cgacgccta cggctcgcca cagtgccagg 360
 cgctgcagca gcagtgtgc caccagatta ggcagggtga gccctgcac cggttacagg 420
 cgacatacgg tgtg - 434

<210> 7754
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-007-Q1-E1-C8

<400> 7754

aggtaatggt caggaattcc cgggccgacc cacgcgtcag cccacgcgtc cgcccacgcg 60
 tccgcccacg cgtccgcca cgcgtccgag aacctccgcy tccgctgta caggccgacg 120
 acgccgcccg gggcgaagaa gaagctcccg gtgctcgtcc acttccacgg cggcggttc 180

tgccctgggggt cgtgcacgtg ggccaacgtc cacgagttct gcctccgcct ggccgcggag 240
 gccggcgccg tcgtgctctc tgcgggctac cgcctggccc ccgagcaccg cctccccgcg 300
 gccttcgacg acggggcccg gttcatgcgc tggtccggg accagtcagc gatcggcggc 360
 gccggcgccct cggacgcctg gctcgcggag gccgctgatt tcggccgcgt gctcgtcacc 420
 ggcgactcgg cgggcgccac ga 442

<210> 7755
 <211> 385
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-007-Q1-E1-C9

<400> 7755
 ttttagctta attgcatgca tgcattca gatatagtaa cagtgatgga tcgttacacg 60
 ctgcagaagc atgcgcttag tcgttatttg cagacgataa taagtagatc gatggagtag 120
 tgatcgagca acacacacgt gacgacgttt gctcttattt acttacacgc acgcacgtgt 180
 acggcgctag gggccgtata tatatcgagt tctgcatgca tatctcgatc gatgggatga 240
 ttagtcgttt cagtcgcagt agtaggagta gccgtgccc tgcccgtgcc cgtgcggcac 300
 cctgtgctcc tgetgcctgc tctcgtagtg ggctccttc tgctcgcggt gctcgtggt 360
 cgcgtagccg ccggcgccca gcgcc 385

<210> 7756
 <211> 435
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB189-007-Q1-E1-D1

<400> 7756
 ggtctagaat taacgggccc agccacgcgt ccacgaatgg ggccgccacca ggcaggccgc 60
 cgcgccagg ccgccaccg tctccatggt cgtccgcgcc tccgcctacg ccgatgagct 120
 cgtgaagacc gcgaaaacga tcgcgtcgcc ggggcggggc atcctggcga tggacgagtc 180
 gaacgcgacg tgcgggaagc ggctggcgtc catcgggctg gagaacacgg aggccaaccg 240

gcaggcgctac cgcacgctgc tggtcacggc gccgggctg ggccagtaca tctccggcgc 300
catcctcttc gaggagacgc tgtaccagtc cgccgtcgac ggccgcaaga tcgtggacat 360
cctggcggag caaggcatcg tgccggggga taanggtgga caagggcctt gtcncgctcg 420
ccggctccaa caacg 435

<210> 7757
<211> 419
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-007-Q1-E1-D2
<400> 7757

gcgtcaaggc aaagggagtg gcagtggcag tggcaatgac acatatgtca gactgcttgc 60

tgcaaacatg acaccgcgac aagcacagct aaagaaatat agagagaaaa agaagaccg 120
gaactttggg aagaagggtgc ggtaccagag cataaagagg ctagccgacc agcggccacg 180
ggttcatgga cagttcgta agcaagctgt gcaaaatcag gacggagcta cagagagatg 240
accgacatcc cccctcccct gtggctgtgc tgctcactgg cttcaactcc ctactgactc 300
cgactccacc tctgctggca tgcattggtg ccgctttgga ctcaaacac ttgacagtta 360
gacatgcggt tgataattct tccgtctctc gtgggtgtgga ctgatatggt cgacaacac 419

<210> 7758
<211> 433
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-007-Q1-E1-D6
<400> 7758

gaattcccgg gccgaccac aacgtcagct gagaagaacc tggatgttgt gttcctgaag 60
ctcgactgca accaggacaa caagccgctt gcgaaggagc tgggcataaa ggttgtgcca 120
acgttcaaga tcctcaaggg tgggaaggtc gtgaaggagg tgaccggcgc caagatcgac 180
gagctagcgc aagccatcga cacagtcaag tcagactgac aaagaaagca ggtgatgcaa 240
ctagctagtg tagacgatga atgaatgagt ccccgccgg ccttttgtgg gacagcaagg 300
ctgctagata cgtacgtacg tactcatcaa caattaatga tggatgatgg caatggcaaa 360

tatacagtca atgattcata tatgcatgca tggactgcta tgctagctag cagccctttg 420
 taaatatagt gtt. 433

<210> 7759
 <211> 431
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-007-Q1-E1-D7
 <400> 7759

ggtaatggtc aggaattccc gggccgaccc acgcgtcagc ccacgcgtcc ggcaatttgt 60
 tatctgccat gcataactag actggatggt catggctcaa actaacttac tttttgccta 120
 cggtctgaaac atttagacag gcagcttacc atataaatgt cacctcctag gtggctaccc 180

tgactacctt ttcgcggggg ggggggggtg actttttttt tactgcaaga tctaataaac 240
 tactgtggcg tttaaatttg tatatttcca gatgacattc atcctgcgca tgatgaacaa 300
 taaatcaagg ttgtcggtaa gtgaaaatag agatcaagat tcaacgaaca caacacagat 360
 cctgatgttt agtggaagtt tgctgcctgt aatgtttctg tcaggcttat tgggatgtgg 420
 agctggaatt t 431

<210> 7760
 <211> 332
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-007-Q1-E1-D8
 <400> 7760

aattcccgtt ccgacccacg cgtcagcaaa cattgaaacc ttaagtttgt cttccagtcc 60
 atatcagctc accagccaat cgtgctggtc aacatatctg ccgtgttgca atgcatgaat 120
 ggtccgagcg cagcgaaggc tgacgattga ccggaaggta cattacctaa aagcgatgtc 180
 acgggtagag atcgtttgat tattatcatc tgtatatccc catgcatggg gtttcgtttt 240
 gtgcgcgtaa ttctggcttg ccagcgatg gttcactgtg ggaacatatg tactaggatg 300
 acagtacgtg aaaattcaga tcacgattca ac 332

<210> 7761

<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-007-Q1-E1-E3

<400> 7761

gggccgagcc acgcgtccac ccaaacgtcc ggtcgcactg gccgtcttcg cgcctcctgt 60
agctctgcca ctgggcaaag cgcacgagga ggaggaggaa ggggttgaac tcgaagccag 120
caggaggcgg tggccgtgct ggcaccagtg cggcatttgc accaggctgc agccgccgat 180
atgcgagtgc agggacacgt cgacgaccgg ctgccacccg gcttgcaagg cgtgcgccct 240
gtccatctcc gacggcctct tcgtgtgcaa ggacaagatc gtcaacttct gcaagcgccg 300
ctgcacccgt cgtactgatg atgatgatgc gtgacttata atcacttaat taggcaaata 360

accttgccaa taaataattt ccgttcggag ctccatttgc atctttctca agatgcagac 420
gacagggttt aaata 435

<210> 7762
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-007-Q1-E1-E4

<400> 7762

ttttgccggc caaaagaata aatgggaact aatgattgca ccaagtaagc ctcacccaaa 60
acaaacgtac cgagttggca taaattacac tatctcattg aattgattga acgcttcctt 120
aaccttcctt cccctattcg gtggggagaa ggacgtaa at caataatcat gttgttctgt 180
tgtgttcaaa aactttgtga cttttttgtg ccgccatggc atccgggcat tgggacgagt 240
acttaggaag aggagaatgt gtgaataata tttttgttga acgggtccga aaggtgtgtc 300
aagagattgt cgatggggcc ggcatgagtt acggatgctt gcacccatgaa gccca 354

<210> 7763
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-007-Q1-E1-E5

<400> 7763

gaattcccg gccgacccac gcgtcagggc ggcgacatgc agaggctcct cgaggcccg 60
acgctgcggc tcaagaagct tggcatcccc tgcaagcata ggaagttgat tttgagtttt 120
gctcacaagt accgtctcgg tctctggaag cctcaagcag aaccaggaa agttgaataa 180
aattggtttg ttcttgaaag ctagtctact gttggactga ggcttggttg ggacattttg 240
aatatttcct tttgtaattt aggagccaca aatctttgtt ctctgtctct ggccatactt 300
atttgcatcc attgtgcaat tttttctaga aaatttcaa cttcgcgtgg aataacaaac 360
cgcaacaggt gcagccccct gt 382

<210> 7764

<211> 471

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB189-007-Q1-E1-E6

<400> 7764

aggtataggt caggaagtcc cgggccgacc cacgcgtcaa agtgaaacaa ctggaagttg 60
agatggggca atctatggag atgggaacca ttcacgcttc agattttctg agacgtttct 120
gctcaactct tgggatgaac aatcaagctg ttagggcagc ccaggatgca gttaagcact 180
cggaggagct tgatataagg aggagcccaa tctcaattgc agccgctgtc atttatatga 240
taacccaact ctcagaggac aagaagccac ttaaagatat atccttggct actggtgtgg 300
cagaaggcac catcagaaat tcttacaagg atctgtatcc ttatgcctca aggctcatcc 360
cgaataccta cgccaaggaa gaagacctga agaattctctg cacaccttag gaagcttacc 420
ttttccccct ttctgttant acataaatcg gaattagatt tgtcaaagag g 471

<210> 7765

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-007-Q1-E1-E8

<400> 7765

aattcccg ggcgacccac gcgtcagggc gcctccccct ccccgccctcc ggtgcccag 60

gccaggccaa cagttttgag gtggtaatgg cggaccaggc taaccaaccc actgtccttc 120
 ataagctagg tggccagttc cacctgagct ccagcttctc tgaagggtga cgggcccgtg 180
 acatctgccc ttctttctca ccttatgaaa ggagatttgc cagaggaac tacatgaccc 240
 agagcctttg gggcccttca atgtctgtta gcggtggcat caatgttcca gtgatgccga 300
 ctccgctttt tgccaatgct ccagccgaga aagggtggcaa aaacttcatg attgatttca 360
 tgatgggagg tgtttcagct gctgtttcga agactgcagc tgctcccatt gaacgagtga 420
 agctgcttat tcagaatc 438

<210> 7766

<211> 111

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-007-Q1-E1-F1

<400> 7766

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa a 111

<210> 7767

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-007-Q1-E1-F11

<400> 7767

ggtctaggga ttcccgggccc gaccacgcg tccaccacg cgtccggagt cagggcgcca 60

tggcgacaga gacggagacc ttgcctttc aggctgagat caaccagctg ctctcactca 120

tcataaacac cttctattcc aacaaggaga tcttcctccg ggagctcatt tccaactctt 180

ccgatgcgtt ggacaaaatc aggttcgaga gcctcactga caagagcaag ctgatgcgc 240

agccggagct gttcatccac attgtaccag acaaggcttc gaacacgctc tccatcatcg 300

acagcggcat cggcatgacc aagtccgacc ttgtcaacaa cctcggtatc atcgccaggt 360

ccgggaccaa ggagttcatg gaagcccttg ctgctggcgc tgatgtgtct atgattgggc 420

agttcgggtg 430

<210> 7768
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-007-Q1-E1-F12

<400> 7768

ccgggcccgc ccacgcgtca ggcgacgcgt gggaaaagct caatgagagg atagcaaagc 60
ttgctgggtgg tgttgctgtc attcaggtgg gagcaciaac agaaactgaa ctaaaagaga 120
agaagttaag agttgaggat gccctaaatg caaccaaggc tgctgttgag gaaggtattg 180
ttgttggtgg aggatgcacc cttttgcggc ttgcagctaa agtcgatgcc atcaaggata 240
cactggagaa cgatgagcag aaggttggag ctgaaatagt aaggagggcc ctgagctacc 300
cacttaaatt gattgctaaa aatgccggtg tcaatggcag cgctgcact gagaaggctc 360
tttctaacga taacttcaag tatggttaca atgctgctac tggacagtac gaggacttga 420
tggctgctg 429

<210> 7769
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-007-Q1-E1-F3

<400> 7769

gggccgaccc acgcgtccac cttgttgctc ttggctccgc gatggcgggtg ggttgcttca 60
accacgtgct ctgcgccgtt gttccttcgc cgccgggtag gcgcgtccga gcggcgctgc 120
ggtgccggtg gcatcgtcac ccgctgaccg cggctctccct ccggcgggctc ccgtgcggcg 180
cggcagctgg tcgtggcacg cggcgggctc cggcggcggc agagtgcag gccgtgcagg 240
agcagccggc gcgggccgaa gaggccggcg gggcgggtgc cgctgaggcg tcctccaagc 300
tggttctggt cgttggcgga accggcgggc tgggacagtt ggttgtagca tcattgctga 360
gcaggaacat c 371

<210> 7770
<211> 448

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB189-007-Q1-E1-F4
 <400> 7770

gggccgagcc acgcgtcaag cttgaagaag accacaaggt tgatcaatgg ggcttggtgg 60
 aaggaggtca taactttgat accgcaaata ttaaagtga aatgtcctcg gctgttgat 120
 ttcttgact ttcacgggga ctgtgaacca tctgtttct tacctatatg ttggtagtt 180
 gtttatttcc aagcttgat gaatctgaga ccaagagttt gtagagaata attgccgcgg 240
 aaggctgata gcaaaccaag tatctgtact gtattcagca atcagcagtt ctgatgttcg 300
 attttgatt gagtccagaa aatgctgttg aggtttgaac tanggaggcc agcattcctc 360
 tggctttgta ctgtgtgag agtaagaaca taactaggaa ctagtattgc agtggcagtc 420
 actgagtcga tatatctact tctgcacc 448

<210> 7771
 <211> 416
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-007-Q1-E1-F5
 <400> 7771

aggtaacggt caggaattcc cgggccgacc cagcgtcag caaagatttg tgagagtgat 60
 ccggcgctga gaagagatgg ctaagatcgc cgcagccgcc gcggcggcgg cggcgctgtg 120
 cttecgggcc ctggtggccg tggccgtctg ccaaggcgag gtcgagcggc agaggctcag 180
 ggacctgcag tgctggcagg aggtccagga gagcccgctc gacgcgtgcc gccaggtcct 240
 cgaccggcag ctaaccggcg gcggcgctcg cggcccgctc cgggtggggca ccgggctccg 300
 gatgcggtgc tgccagcagc tccaggacgt gagccgcgag tgccgctgcg ccgccatccg 360
 gagcatggtc aggggctacg aggaggccat gccgcctctg gagaaaggct ggtggc 416

<210> 7772
 <211> 460
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-007-Q1-E1-F6

<400> 7772

gccaggtaat ggtcaggaat tcccgggccg acccacgcgt cagattttta gttgctgaga 60
gtgaagaggc acttggttaa aggctaatacc accgtaaaac agaaacatca gatatgcttc 120
ttgtcagagt cgcaacagcc agggaggagg tgaaacacat gaagaatttc gactatgtgg 180
ttgtaaacgc tcaagggaaa cttgaggagg ctgttaaaca agtggaatct atcattgatg 240
ctgagaagtc taaaattcac aagcggcatg tcaatatcta agccaaggat catgtgattt 300
atgcctattg tcttcatctc tataaaggaa aattatctgt ccaagtctac tgaagcgtga 360
tgaaatgact caggtttcag tagccagaaa gttcaatgga ttgctgagtt acaagaatat 420
ggcatgttct gtttaagaaa ttccctcac cacaaccggg 460

<210> 7773

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-007-Q1-E1-F7

<400> 7773

gtcaggaatt cccgggccga cccacgcgtc cagctcgtaa agagaaggaa aaatatcccc 60
aaaccctagc tcgcgatctc gatggcgaa cctcgcgtca tcttcgacat gaccgtcggc 120
ggcgccccgg cgggccggat cgtgatggag ctgtacgcca acgaggtgcc caagaccgcg 180
gagaagttcc gcgcgctgtg cacgggagag aatggcggtg gcaagtccgg gaagccgctc 240
cactacaagg gctccacctt ccaccgcgtc atccccgagt tcatgtgcca aggcggagac 300
ttcaccgcg gcaacggcac cggcggcgag tccatctaca gcgagaagtt ccccgacgag 360
acatgcgtgc gcaagcacac cgccccggt gtgctctcca tggccaacgc cgggc 415

<210> 7774

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-007-Q1-E1-F8

<400> 7774

aggtaacggt caggaattcc cgggccgacc cacgcgtcag cccacgcgtc cgagcaaaga 60
 accctgcaac tgcaacaagc cctgacgctt aatacatcgg cgggcactcg atcggcagca 120
 gatcaaagat ggccggcgag gagggggaga aggccaagag cggcgggcggc gggcagcaga 180
 tgacggtggt gcgggggctg gacgtggcgc ggtacatggg gcggtggtac gagatcgctg 240
 cgttcccgtc cttcttccag ccgcgggacg gccgcgacac gcgcgccacc taccggctgc 300
 tggaggacgg cgccacggtg cacgtgctca acgagacgtg gagcaagggc aagcgcgact 360
 acatcgaggg cacggcctac aaggccgacc ccggcagcga cgatgccaaag ctcaaagtca 420
 agtttctact cccgcccttc ctccccatcg tccccgt 457

<210> 7775

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-007-Q1-E1-F9

<400> 7775

ggttacggtc aggaattccc gggccgaccc acgcgtcagt gaaaggagag ccttcctctg 60
 tggccttctt cgcaaggct gggctggatt acgtttcttg ctccccttcc agggttccga 120
 ttgctaggct agctgcagct caggtgcttg tctgaggctg cctcctcatt ggcaaccgga 180
 ttgcctgctg ctggtggatg tggatgacaa cagtattatt acagagccat gctatgtgaa 240
 cactactagt agcagtgtc ataaaagcta caatcccatg tccttttttt cccagtcatt 300
 gtaaaacttc caaactgtc catggttcaa aactctgttc ttcaatacat catcaattat 360
 cgatt 365

<210> 7776

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-007-Q1-E1-G11

<400> 7776

ggtaacggtc aggaattccc gggccgaccc acgcgtcagg ggagccaacc aggaggatgc 60
 cctcgcgca attgaaaagc tttcagaagt aaacccgatg cttggcttcc gtgggtgcag 120

gcttggtata tcgtaccctg aattgacaga gatgcaagcc cgggccattt ttgaagctgc 180
 tatagcaatg accaaccagg gtgttcaagt gttcccagag ataatgggtc ctcttggttg 240
 aacaccacag gaactggggc atcaagtgc tcttatccgc caagttgctg agaaagtgtt 300
 cgccaatgtg ggcaagacta tcgggtacaa agttggaaca atgattgaga tccccagggc 360
 agctctggtg gctgatgaga tagcggagca ggctgaattc ttctccttcg gaacgaacga 420
 cctgacgcag atgacct 437

<210> 7777
 <211> 404
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB189-007-Q1-E1-G2

<400> 7777

ggccggtcta gaataccggg ccgacccacg cgtccacgtg gatcggctgt tgccaatggt 60
 ggcggtggtg atggatggca taacaaaaa acatgggctg agctgaaaag gcttctggaa 120
 gggtagaaaag gttgcacaga caataaaatt ggggatgtac cgaggattgt agtggataca 180
 actgatccga cagttgatgc acaggtggta gctgaaaagg ttgtggtttt cattagatcc 240
 catcttgctt gtagccaacc atcttggtgg agacangatt cacctgtttg ccattagaaa 300
 ccaaaatgta cactagctta agcattangt gaagtgtcat tgcaaaagg tgcattgttg 360
 tactgcaatg ctcaaagttt tttttttggt tatgggtgta acct 404

<210> 7778
 <211> 440
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB189-007-Q1-E1-G7

<400> 7778

aggtaacggt caggaattcc cgggccgacc cagcgtcca cctcgccccg ccgcacccga 60
 atgaaatcca gaaatcattt ctctgttcta aattgaaagt ctagaaatag gtgtttatag 120
 attcatcgcg acacgatctt caccagaaaa ggttacaaga gaaatgcaga gatttattct 180

atggagaaag catcagggca ttctgctttg cgtcacaaag tttcaaacc agcaaaaccc 240
ccagtcgata tatcagatag gatgattggg gataccaaag gaagcaaact caaacacaca 300
aagtttcaga agcacagcta ctgcttgctc nctcaggcga ccttgacctc gatggtcttg 360
ggcttcttgg gctccggcgg nggcagcttc tcgacgggtca ccgtgagcac gccgtcnctg 420
cacacggtgt cgcacggggc 440

<210> 7779
<211> 385
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-007-Q1-E1-G9
<400> 7779

ggttccggtc aggaattccc gggccgaccc acgcgtccac ccacgcgtcc gccacgcgt 60
ccgcccacgc gtccgccac gcgtccgctt gatgagtatg gaactaatgt aacaaaatta 120
gcacaggagg gaaaattaca tcctgttggt ggaaggcagc cacacagtga gcgtgtggta 180
cacattttag gcagacgaac caagaacaga ccctgcttga ttggcgagcc tgacgttgga 240
aaaactgcaa ttgctgaagg acttgctcag cgcatttcta caggcgatgt acctgataca 300
gtacaaggga aaaaggatcat aacccttgac atgggacttc ttgttgctgg cacaaagtac 360
cctggagaat tcgaagaacg cttaa 385

<210> 7780
<211> 366
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-007-Q1-E1-H1
<400> 7780

gggcccaccc acgcgtccac ccaagcgtcc gggatgtgca tacagctgtg catccaagtt 60
ggagtcgaca cccaatgga cccgcagcaa gatctcctgc tagatctctt gtactccatg 120
ctccagtcgc agcgacatgt tcaactgacat ggcagtactc atgcgcccac tgattcgctg 180
aaggttactc gcgacatgct ttgccgcaag tttgggcta gcagatgggtg atgcaacctc 240
agactcaaca tcattctcat cagatcatac tactgatact gatggaacta ctactgggtga 300

tctacctgca catctgcctt ctccagagcc gtgctctgat catttagatg ctcccttggc 360
agattc 366

<210> 7781
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-007-Q1-E1-H10

<400> 7781

ccgggcccac ccacgcgtca ggggacaagg agaaactcgg ccggaatgtg ccgcaggttt 60
cgctggcggtt gttcttcagc tacaacacat cattggggcc gccgtatcgg gtgattgtgg 120
ataccaactt catcaatttc tcgatacaga ataagctgga tttggagaag ggaatgatgg 180

attgccttta tgcaaaatgt accccatgta tcacggactg tggttatggct gagcttgaaa 240
agctggggca gaagtatcgt gtggccttga gaattgccaa ggaccctagg ttccaaagat 300
tagcatgcac acacaaggga acctatgctg atgactgcat tgtggagagg gtcactcagg 360
taaaagctct ctcttcttga acactctttg tttgtttgga gcatgagtac tgggagtatt 420
ctattaagtg ctaactctat agcg 444

<210> 7782
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-007-Q1-E1-H11

<400> 7782

cccggttcga cccaagcgtc cggcctgctg cggattgccc ccaggcggcc ccactcactc 60
cgctgttgat atttcgtttg gttctccttt ccgtcttgct cgctgccgag gccttcttcc 120
cctcgctccc cagctccagc aggcagatca gatccatcca accacgaaca ggaaggaagg 180
taggaggcct gaggggctga agttgaacca tgagtgccgt cgcgggtttcg tcgtcgctga 240
accgaacgc gccgctcttc atcccggcgg cgctgctgca ggtggaggac ttctcgccgc 300
agtgggtggga cctcatcacc accaccgctt ggttccgcga cactgggtcc cgcgagcacg 360
cccacctgga cgagatagcc gagcagctcg agttgggtcg cctccttgcc tacgatgagg 420

atgaggaact c

431

<210> 7783
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-007-Q1-E1-H4

<400> 7783

gggccgaccc acgcgtcaac aagtggtttc cactgaaaat ccaattcccc caatcccaaa 60
ccaagggccc ttttgccaac ccaaccgttc tccttcggga cttgcaggaa ggtttaacct 120
gcttcggcgg gcggctgggc ctgaccatcg actcgggctg gcaactggga ggcccccgcc 180
gagcgcgtgg ggcggttggc ccgcgagagc cccgtggtga tcttcgctg acgcgggtgc 240

tgcattgtgcc acgtgatgcg gcagctgctg gcggccgttg gcgcgcaagc gacgggtgatc 300
gagctgga 308

<210> 7784
<211> 468
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-007-Q1-E1-H5

<400> 7784

gccgccaggt ataggtcagg aattcccggg ccgaccacg cgtccacca cgcgtccggc 60
tttatctact ccagagcgca gaagaaccg atcgacacca tgagggtgtt gctcgttgcc 120
ctcgtctctc tggctctcgc tgcgagcgcc acctccacgc atacaagcgg cagctgcggc 180
tgccagccac cgccgccggt tcatctaccg ccgccggtgc atctgccacc tccggttcac 240
ctgccacctc ctgtgcatct cccaccgccg gtccacctgc cgccgccggt ccacctgcca 300
ccgccggtcc atgtgccgc gccggttcat ctgccgccgc caccatgcca ctaccctact 360
caaccgcccc ggctcagcc tcatccccag ccacacccat gcccggtgcca acagccgcat 420
ccaagcccgt gccagctgca gggaacctgc ggcggttgga gcaccccg 468

<210> 7785
<211> 404
<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-007-Q1-E1-H6

<400> 7785

ttccccgggcc gaccacgcg tcagcggacg cgtgggctcg ttctcttcg aaagcccgcg 60
cacgcacgtc ggtcgtcccg agcatgacct cgatcggccg agatggcgac gccgaacggg 120
cttgcgcgga tcgagacgac cggaagaag aagcaggaca acggcgtgtg gtacgacgac 180
agctcggcgc cgggtgcgcgc gcagaccatc gacgagctgc actcgtgca gcggaagcgg 240
tcggcgccca gcacgcccga gcggtcggcg cccaccacgc ccatcaaggc cggcgccac 300
tcgcccacgc ccgtcgcgat ctccgaggag gagcgccaca cgcagcagat gcagtccatc 360
agtgcgtcgt tggcgtctct gacgcgtgac agcgggcccga aagt 404

<210> 7786

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-007-Q1-E1-H8

<400> 7786

gaccaagcg tccgcaggtg gtttccaaag ccaactgtgt actagcagtc tagcaaccag 60
ctacctcggg cggcagcatg cagccatcat gtctgacgac aagcaccacc acttcttcaa 120
ccaccacatg aaggacgacg agcagcccgc cggcgagtac gggactccg ataccgaggt 180
ggtcacgcgc accggctagg gcgagtacga gacgtacaag aaggacgaga aggagcacac 240
gcacaatcag cacctcagca aggccggcgc catcgccgcc ggcgccctcg cactctacga 300
taagcacgag gctatcaagg accccgagca cgcgcacagg cacaaga 347

<210> 7787

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-007-Q1-E1-H9

<400> 7787

gtcaggagtt cccgggcccga cccacgcgtc caccacgcg tccgggctga tgatcatttc 60

agacaggagc cagatggtga tgggagttct gctgtccagc tatatgcaaa ggaaacgagc 120
acgatgatgt tggaagttct gaaaaaaggc ccaaggacta ctgcagaact ggaggcacct 180
gtagctgaca cacctcttgt gtctgctgat actgtactag atatatctgg tggcaagcgt 240
gctttttattg agggcaatga agcaaaggaa ctgctgagtc cacttaccat cacaggaaat 300
tcatataaaa caatttgctt tagcaacagg agctttggta ttggtgctgc taatgttgct 360
gggccaattc gtgagtcact taacaatcag ctcacagacg ttgatatctc agattttgtg 420
gcacgaaggt ctgaagatga cgcccttgat g 451

<210> 7788
<211> 441
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-008-Q1-E1-A1

<400> 7788

taccggtcta gnattcacgg gccgaccac gcgtccaaaa gcacaatagt gtaccaacaa 60
tggcagccaa aatattttgc ttccttatgc tccttggtct ttctgcaagt gttgctaccg 120
caaccatttt ccacaaatgc tcacaagctc ctatagcttc ccttcttccc ccatacctct 180
caccagcggg gtcttcaatg tgtgaaaacc caattgttca accctacagg atccaacagg 240
caatcgcaac aggcattctta ccattatcac ccttggttct ccaacaaccg tcagccctat 300
tacagcagtt acctttgggc catttggtgg cacaaaacat cagggcacia caactacaac 360
aacttgctgc agcaaaccct gctgcatact ctcagcaaca tcagtttctt ccattcaacc 420
aactggctgc attgaactcc g 441

<210> 7789
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-008-Q1-E1-A10

<400> 7789

ggtagcgggc tagaattcac gggccgaccc acgcgtccac ccacgcgtcc gccacgcgt 60
ccggttctgc gtcagcacat tcctgaatct gaagccaagg ataagttcat atctaaatgg 120

aataatgtgg ctcataacag aaatattact tctggcttga actcgtatgg tttttatgct 180
 tatgactcgg tttgggctgt tgctcgtgct gtcgataaat ttctcagtaa tgggcaacag 240
 atcaacttct caacagaccc caggtttagaa gattcaaatg gcagcacgtt gcacctatca 300
 agtctcaaga tatttgacgg tgggtgagcag atgctgcac aacttctcct cacaaacttt 360
 acgggtgtaa cagggtccagt ccagtttgat tcagagcaca att 403

<210> 7790
 <211> 443
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-008-Q1-E1-A12

<400> 7790
 ggtgccggtc tagaatttac gggccgacgc acgcgtccac catgacgctg aggagccact 60
 gatcaagcac gaggccgact gtgagggcac ccaatctgct gctaagaagc ctcgacgcaa 120
 tataaacgta cacagcgctt accttcatgt gcttggggac tccatccaga gcatcggggg 180
 gatgatcggc ggggctatca tctggtacaa gcccgagtgg aaaatcatcg atctgatctg 240
 caccctcacc ttctcgggtg tcgtgctggt caccacgac aggatgctgc gcaacatcct 300
 cgaggctcctg atggaaagca cgccccgtga gatcgacgcc accaggctgg agagggggct 360
 ctgcgagatg gaaggcgtgg ttgccgtcca cgagctgcat atctggggcca tcacagtggg 420
 gaaggtgcta ctggcttgcc atg 443

<210> 7791
 <211> 414
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-008-Q1-E1-A2

<400> 7791
 ggtctagaat atccggggcg gccacgcgt ccacccacgc gtccgggaca aaacgagcaa 60
 gcagtcacat caataggcca aagggtgaaa ggcaatgcac aagagcagcg ctgtcgattg 120
 gtagaggccc gggaacagcg aagcacgaga aagaagggca gcacagaagc cagctcatga 180
 aaaatagagg ttcagaaaca gcaatccatg aggaggtagc agagcaacac agctcagtag 240

aaacgagccg tgaggaagca ggattattcc aagaacagac ctcagatata agtcacaaaag 300
aagaagaaga agaagaagga gaaggagaag aagaagaaga agaagaagaa gaagaagaag 360
aagaagaatg tactagttaa gtaggagcgg gtaaacaacag ctcagtagga acga 414

<210> 7792
<211> 248
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-008-Q1-E1-A6
<400> 7792

ggtacaggtc cagaattccc ggtctgaccc acgcgtccgc tcccgtgct ggccgcgggc 60
cccgcgtcg tccgtggccg ccgacagcgc gccagctcc tccagcttgg acagtaggcc 120
cagccgctcc atcgccgaca gcgacagccc cgcgcgctcc gccgccgaca gcaggcccgc 180
gcgctccgcc ttggtcacca gccgcagcat caccaggggc gtcagcaacg taaagggagc 240
tatggaga 248

<210> 7793
<211> 327
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-008-Q1-E1-A7
<400> 7793

ccgggccgac ccacgcgtca gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaggggaaaa 60
aacaaaaaag ataaaaaatt aaatatacat aaaaaaaaaa ataaaagggc tcctatacaa 120
gtagatgggg ggctgatctc agggttcctg ttttaacaaa gcttttctgt gatgtcactg 180
accttcaatt cattaacctc cttttaatac attgcccttt gtttaaaacc ggcgttatcg 240
aaaaaacccc gacttttatc actttccctt ttttgacaaa atttccctt tcaaaagggtg 300
cgctctgttt cactgcgcca aaagttt 327

<210> 7794
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-008-Q1-E1-A9

<400> 7794

acccacgcgt caaccacgc atccgccac gcgtccgaag caacatagaa agtggaatcc 60
agtagcaaca atagagcaac aatggcgacc aagatatatt cctccttat gtccttgct 120
ctttctacat gtgttgctaa cgcgacaatt ttccctcaat gtcacaagc tcctatagct 180
tcccttcttc ccccatacct tccatcaatt atagcttcaa tatgtgaaaa ccagctctt 240
caaccatata ggcttcaaca agcaatcgca gcaagcaaca tacctttatc gcccttggtg 300
tttcaacaat cgccagccct atctttggtg cagtcattgg taaaaccat cagggcacia 360
cagctgcagc aactcgtgct acctctgatt aaccaagtag ctctgggaaa cctt 414

<210> 7795

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-008-Q1-E1-B10

<400> 7795

cggtctacaa ttcacgggtc gacgcacgcg tccaattcta gatatgaagc tgcagctctt 60
cgtgctctcc gcaagttatg gagcatgaga agttcactga atctagtaag caccacactt 120
gatgttttta ctggcaagtg gattcagtat tcatccggaa ttggtgctgg tgttgattca 180
ttttatgagt atctgattaa agcatatatt cttttcggaa gtgatgagta ctgggatatg 240
tttcattcag cttatcttgc ggtgcagaag tacttccgac atgggtccatg gtatcatgag 300
gctgatatga ggactggaga agcaacgcac tggcagctaa ctagccttca ggctttctgg 360
ccaggtcttc agacacttct tggagacgtt actgctgcaa atctatcaca ccgtgagttt 420
tacaatatat ggcaaagatt tgggtgtgcta cctgaa 456

<210> 7796

<211> 449

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB189-008-Q1-E1-B12

<400> 7796

aattcacggg cgcagcacg cgtccaggag gagcctcttg ctccggcttc ggcttgactc 60
agctgcagcc cgcgcgctt aggtcccggt tgccgcctgc tcgcgccgcg gacacttcgt 120
cctcccagtc gccggcgcg ctagcggcgg tgctggagca agtggaccag ttgctaagcc 180
aggggaacga catggccgcg ctctccctcg tgcgcagtac gcanggggggt gacggcgggc 240
tccgggcctt tggcgccgcc aggcaggtac ctcaacgact ttataaattg gatgagctta 300
aactgaatgg gattgatact tctgctttcc tatcaccggt agatctgaca ctangatcaa 360
ttgagagaaa tctccanac gctgcagttc tgggaggggt ttctgtatca gctgcattgg 420
aactttctca actccaaatc ctgtttctc 449

<210> 7797

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB189-008-Q1-E1-B5

<400> 7797

attcccgggc cgacccacgc gtcagcccac gcgtccgccc acgcgtccgc gagctgggtga 60
agcttgctac agagaggggc cgcaaagcta ggcctaactt gaaggtgggc atttgtggag 120
aacacggtgg agagccttcc tctgtggcct tcttcgcgaa ggctgggctg gattacgttt 180
cttgctcccc tttcaggggt ccgattgcta ggctagctgc agctcaggtg cttgtctgag 240
gctgcctcct cattggcaac cggattgcct gctgctgggt gatgtgggtga tcaacagtat 300
tattacagag ccatgctatg tgaacattac tagtagcagt gtcataaaa gctacaatcc 360
catgtccttt tttttcccca gtcattgaaa acttccaaac tgctccatgg ttcaaaactc 420
tgttentcaa tacatcatca at 442

<210> 7798

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-008-Q1-E1-B7

<400> 7798

aattcccggg cggaccacg cgtcagcca cgcgtccgca caggttttct atagttgtcc 60
gcattttggc agtaaacttg cagacatgcc atggcgtatg ggtttagtgt ttcgtcctgc 120
tccttcgatt ggggagttaa gaagtgggtc tccaagacta gttgaactga acgattttgt 180
cgtcaacga cacaacaaag gatttcttga tgttcttagt tttagtgagg tagtaacatt 240
cgtactgcc agttccactg ccacaatgct aagttatagt atatgcta tggttcctga 300
cagaccagg tcacaccgat tgttgaagga tatggcgggt gggcacttcg tatggagata 360
gtgccaatg aatctgcata cccaggcttt ggggagcttg tcgtaagtat ttttcacaac 420
tcattgtacc attgggtagt gcacatggaa t 451

<210> 7799
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-008-Q1-E1-B8

<400> 7799

ggtagcaggtc aggaattccc gggccgaccc acgcgtcagc ttccacaagg cactctgatc 60
cagacagtgc tggtcttcc ttttctattc ttctgggcaa ttcaccgcat cttgatggcc 120
agtatgctgt atttgggagg gtcactaaag gtgacgatac attgactaaa ctagagaggc 180
ttccaacccg gagagaaggc atttttgtaa tgccgatcga gcgtatcaac atcctatcaa 240
cttactatta tgatattgat ctagagagct gtgaagcaga aaaatctatt ctccggagga 300
gactttctga atcagcatca gaagttgagc gatggagaag aaaatgcttt gcttaatggt 360
ggaataagga ctgcatattc cgtttcatga tgctggatgg tttcctgagg ttgaatatgg 420
acgacggtgt ggacatg 437

<210> 7800
<211> 467
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-008-Q1-E1-C1

<400> 7800

ggtctagaat acccgggccg agccacgcgt ccgactgcgg atagagcagc agaggcagcg 60
 acacgatcgc gagcgcacgc acgtaagcac gttgtcggaa gctcaagtta gaagaagcac 120
 cagtgactga tcgatggcgg cccaggctct cctctccggc cggcagctgc tggggccgcc 180
 cgtgcagtcg gccgtctcta ggctcgtcgg gaggaaggcg cccttcgtcg tcagggccag 240
 ctccagccct ccagccaagc aagggtgccg caggcagctg tggttcgcgt ccaagcagtc 300
 cctctctac ctcgatggca cgctgcccg cgactatggc ttcgaccgc tgggcctctc 360
 ggacccggag ggcaccgggg gcttcatcga gcccaagttg ctggcctacc gcgangtgat 420
 caacggccgc tacgccatgc taggcgccgt gggcgccatc gccccgg 467

<210> 7801

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB189-008-Q1-E1-C10

<400> 7801

attcacgggt cgacgcacgc gtccataaat ctgatggtgc tctttctgca gaaatggttt 60
 atatgtttgc agaatggtac aaaccaggat gcttgcttga gtaccctctg ggtggaactg 120
 gagcaataat agatgccctt gtgagcggta ttgaaaaatt tggtaggcaga cttgctcttc 180
 gttctcatgt tgaaaagatc ttaatagaga atggctcagc agttggtgtc aagctacaaa 240
 gtggacaagt tatccgtgca aagaaagcgg ttgttagcaa tgcattctatg tgggacactt 300
 tggatctgtt acacccgatg ctgtcncaa atcatatgaa gatagagtga aagcaactcc 360
 acaatgtgaa tcgtttatgc atctccacct tggttttgat gcanagaatg ctanagaaga 420
 ccttgggatc catcaca 437

<210> 7802

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-008-Q1-E1-C11

<400> 7802

gcggtctaga attcacgggc cgacgcacgc gtccaccac gcgtccgcga cagcatcgcg 60

agcgcaagca cgtacgttgt cggaagctca agttagaaga agcaccagtg cctgatcgat 120
ggcgcccag gctctctctt ccggccggca gctgctgggc cgccccgtgc agtcggccgt 180
ctctaggtcg tcggcgagga aggcgccctt cgtcgtcagg gccagctcca gccctccagc 240
caagcaaggt gccgacaagc agctgtgggt cgcgtccaag cagtccctct cctacctga 300
tggcacgctg cccggggact atggcttcga cccgctgggc ctctccgacc cggaaggcac 360
cgggggcttc atcgagccca agttgctggc ctatggccaa gtgattaacg ggcgctacgc 420
catgctgggc ccggttgggc gccatcgc 448

<210> 7803

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-008-Q1-E1-C2

<400> 7803

ggtctagaat acccgggccg acccacgcgt ccacgacttg tttcattgat tcttgaagag 60
atcgagcttc ttttgcacca caaggctcag gatgtcttgc aactgcggat caagctgcgg 120
ctgcggctca agctgcaagt gcggcaagaa gtaccctgac ctggaggaga cgagcaccgc 180
cgcgcaggcc accgtcgtcc tcggcgtggc cccggagaag aaggccgcgc ccgagttcgt 240
cgaggccgcg gcggagtccg gcgaggccgc ccacggctgc agctgcggtg gcaactgcaa 300
gtgcgacccc tgcaactgct gatcacatcg atcgacgacc atggatatga ttaatatcta 360
tccaacttgt ggtggtggtt gaacaataat aagcgaggcc gagctggctg ccatacatag 420
gtattgtgtg gtgtg 435

<210> 7804

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-008-Q1-E1-C3

<400> 7804

gggccgagcc acgcgtccac ccacgcgtcc gccacgcgt ccgcggacgc gtggggggccg 60
ctcgaccac catcaccgtc tggtcgccg agggagagtc ctctggctcg ctccccctgc 120

cccagggtctt caccgctccc atccgattgg atgttggtca gcagggtccac aagtcgatgg 180
ccaagaacaa gagacagcca tacgccgtcg ccgagaacgc tggtcaccaa acctctgccg 240
agtcttgggg tactggacga gctgttgccc gtatcccccg tgtgtcgggt ggtggtacac 300
agcgatctgg acaggctgcc ttcggttaaca tgtgccgagg tggtcgaatg ttcgccccaa 360
ccaagacttg gagacgatgg cacgtaaagg tcaaccagaa ccacgaagag atacgccgtc 420
gcctccgcca ttgccgcttc gggccctcca t 451

<210> 7805
<211> 232
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-008-Q1-E1-C4

<400> 7805

cgcgctccact aaaaatccac aaaactccca gatcggtggg gaggtcgacc cagatcagcg 60
tctggttcac cagggagagt cgtctggctc actccccctg ccccggtct tgacggctcc 120
catcagattg gatgttggtc agcagggtcca ctagtccgag gctaaccatg agagacagcc 180
atacgccttc ggcgaaaacc ctggtcacca aacctctgca ggatcatggg gt 232

<210> 7806
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-008-Q1-E1-C5

<400> 7806

aattccccggg ccgaccacg cgtcaggcca cgcacccggt caagcatagg gaagggtctt 60
gtgtagtacg tctttgggtt cctcctctc gtcttgatgc tcttggttaa tgtctgtgcg 120
gatgtttccc tgattctaac gtatatgcac cagtgtgttg aggattggaa gtcattggtg 180
aatcaggct tcgcagcagg ataggtggca atctacacta tcatgtacct cagcaacgat 240
cttgatttcg acctcaagag cttgactggg caactgtatg ctacgctcta catcggtaac 300
gcaatcgtca tgggtga 316

<210> 7807
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-008-Q1-E1-C6

<400> 7807

ggtacaggtc aggaattccc gggccgaccc acgcgtcagg gtgcaccatg ggcacgcggc 60
ccgcgatcat gtcaccacc ctcggctcca tgtgtactg catcgctcgc cacaggctgg 120
aggagaagaa caccaggaag atcaggaggg cctccgcgag ccagtccgcg ggctcgtggg 180
cccgatcggg cgactcggac gaggagatac ttaacagcga gtacaagacg aagatgtacg 240
cgctgtagcc ttaggatgg atagcaagtg taacatgacg gattcttttg tacataccag 300
tgctttgttt cgccagaggc tgctccatgg cattcggctc gggatgcaga ggctgcggca 360
ccacatcagt cttcaaccaa aggactgaag gcccttctg tgaaaccaag ttcaggtcac 420
ttgaccggtg tgcctgtt 438

<210> 7808
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-008-Q1-E1-C8

<400> 7808

aagtcccggg ccgaccacg cgtcaggag agagacgaag agagcggaag cgaaagagca 60
gcggcgcaaa ggaaaggag ccatgctcgc gtcgccggcg ctcgccggcg cccactcctt 120
cgcggcgtcc gtgtatggaa gcctcctcgt cccctcgcct cccgtccccg cgccggcacg 180
tcgcgcggcg ctgtccgtcg tcgccaaggt caaggtggcc acgccccagg acgaccgcat 240
cgccccccac gtccgcctcc gcaagaaggt aagtggcacc actgagaggc cgaggttgag 300
tgttttccgc tcaaacaac atctgtacgc tcaagtcac gacgacacaa agcaatgtac 360
tctgggttca gcttcaacca tgcacaaatc tctctcaag gaatttgaat actcgggtgg 420
gccaacg 427

<210> 7809
<211> 414

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-008-Q1-E1-C9
 <400> 7809
 ggccgacgca cgcgtccggt ggccaccacc acgaagatgc aggagcatgc gggcagcgac 60
 aagtcgtgtg tttggcacgc tgctgacttt gccgatggcg aacttaagga ggagatgttt 120
 gccatcaggt ttggttcggt agaaaactgc aagaagttca aggagtgtgt tgaggagata 180
 gctgagtcgc ttacaaagaa cgagggcaag gaaaggtaag atgggtgggtc cacggctgga 240
 ttgctggcga aactcactgt gaaccaaggc aaatctgaag gaaattgcaa gtccgagtc 300
 actgaatccg gcaaagtgc tgaaaccaa gccgacacag cccaactga gtagttggtg 360
 tggttgact tgcacgcaa tccccctggt gctgaactag tttgtctgtc cgcg 414

<210> 7810
 <211> 267
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-008-Q1-E1-D12
 <400> 7810
 gacgcacgcg tccaccacg acgtccgccc acgcgtccgc ccacgcgtcc gcggacgcgt 60
 gggaaaaaaaa attaaaaaaaa ataaaagaaa aaagttataa atataaaatg aattaaaggt 120
 taaccgcgaa aaaggattaa agcttagtta tacttgcagg cgaagtcaaa aatcataaag 180
 ggggggtcccc caaaagggtt aaactttact tcccccttaa agccgacgtt aatgctcttc 240
 actcgggtcc cctaatttca tttcctg 267

<210> 7811
 <211> 435
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-008-Q1-E1-D3
 <400> 7811
 gggccggccc acgcgtccgg acaatagcaa tgaagcagaa agtaataact tagattgtgt 60
 tgataaagt actctacttg aaaataaggt gcagcttgag ccagtaaaag acaatgttcc 120

tggtatctgc ccaactgttg ctcattcatc ttctgatcct gagtttgagg ggcttgctga 180
 tgctagattc gatgttaaga ctgcagtga ggtgtactcg ccggaggaat atgaacaact 240
 taaatctgag aaggcaaatt tggagggaga actagcaaag tgcaacaaaa taatagaaga 300
 aacaatggct aggttaagt atgtggagaa aaaactggaa gacctgacat ctaagttggc 360
 tgacagtgaag aaatcaaata gctttaatga gacacagttg aagtgtatgg ctgaatccta 420
 caagtcactt gaatc 435

<210> 7812
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-008-Q1-E1-D4

<400> 7812
 gggccgagcc acgcgtccac ccaagcgctc gccacgcgt ccgcccacgc gtccgtcatt 60
 actaggataa tatcatgaat gattttggcg agtcacaaat atatattgag aacctatact 120
 taccctattt gtgtacaact tcaatttgaa ctcaattatt catatgttgt attatgtttt 180
 atcacaaacta atgttttagt atatgcaaca ttactcttat aaaaatagtc tgtgtctata 240
 caattataat tatttatatt tgacactaat tgtgtaagat aaatcactga agggaacaaa 300
 aggccagagc cacgtattca agctgctaag tttgcatgag aggggtggtat tcacgttttg 360
 taagttctta ttccctgttt tttctctgca attttttttt tgtaagcctg caactgggtct 420
 ttaaa 425

<210> 7813
 <211> 454
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-008-Q1-E1-D5

<400> 7813
 gaattcccgg gccgacccac gcgtcagacg tggcaaggat gacattgtca atgctggtat 60
 agctggttgt tgtactggcc tcgctttggg ctttcaggg gcgccacagg cattgctcca 120
 aagctgtgcc accttcgcag cattctcatg catcatggag gggctcaata agcagcaggc 180

tgcaatggct cgcacgcttg gagggactgc cgcgatggcc gtgcatgaga aatgtggtgt 240
tctgcccccg ttcacgcttc cacctattct tgatgcatct gatgctttag cttcatgctg 300
cttagcgтта gtaaagccta agcactagac tacacaatag agggcgtgag cgatggcgaa 360
gaagggtaac ttcaatcttc ggctctttat tgtgttgacc ccagggtata tgaattatgt 420
ttttggacaa gatgtgtaac gtgcctaaat tcca 454

<210> 7814
<211> 426
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-008-Q1-E1-D6

<400> 7814
cccgggccga cccacacgtc agctcgactc caaggtcatc accgaccggg agacggggag 60
gtctcgcggc ttcggcttcg ttaccttctc ctccgagaac tccatgctcg acgctatcga 120
gaacatgaac ggcaaggagc tcgacggccg taacatcacc gttaaccagg ccaggtcccg 180
tggcgggtggc ggtggcggcg gtggctacgg cggcggtcgc ggcggcggcg gctatggtgg 240
cgggcgccgt gacggcggtt atggcgggcg tggcggtac ggcggtcggc gcgaggggtg 300
tggcggcggc tacggaggcc gtggcggtc cggcggtcgg cgcgaggggtg gtggtggcg 360
ctacggcggc ggcggcggcg gctggaggga ctgatgtgtg ggcccatcct ggcttcggcc 420
gagtta 426

<210> 7815
<211> 468
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-008-Q1-E1-D7

<400> 7815
aggtataggt caggaattcc cgggccgacc cagcgctcag gttacaattc aacaatgatt 60
ggcgttgcca tgtgcatgga gggaatagag cacaatccag ttgtttatga acttatgtct 120
gaaatggcat ttcataataa gaaggttgag gttgagtgag atcgggatta attgaagttt 180
tctgccttga gttaaagtgt gacctgtgca tcagagaagg attgtccaaa acaccaaaca 240

tttghtaattt gtgtagtttc ttggtagaca tgctttctgc gaccttgttt acatgaggat 300
 tggctaaaaa cataactcctg taggagatat ggtcaagcaa atgctgacat agagaaaagct 360
 tggagatatt tgtatcatat aatatacaat tgcactgatg ggattgcgga ccataataaa 420
 gactatatag ttgaatttcc agacataagt cccagctcag ttacttat 468

<210> 7816
 <211> 401
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-008-Q1-E1-D8
 <400> 7816

ttcccgggcc gacccacgcg tcagggcctc cccgggcagg cgctcttcgc cgggcagccc 60
 acatggatcg cctctggcct ctctccgcg ccgtgcgagc gcgcgcgtca ggcctacaac 120
 ttccggcctcc gcaccatggt atgcttcccc gtccggcaccg gggtgctcga gctcggctcc 180
 accgacgtcg tgttcaagac cgccgagagc atggctaaga tccgctcgct ctttgggggc 240
 ggagcagggg gtggctcgtg gccgcccgtg cagcctcagg cgccgtcgtc gcagcagccc 300
 gccgccggag ccgaccacgc ggagacggac ccgtccatgc tatggctcgc cgacgcgccg 360
 gtcattggaca tcaaggattc cttgtcgcac ccgtcggccg a 401

<210> 7817
 <211> 458
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-008-Q1-E1-D9
 <400> 7817

gtgcggtcta gaattcacgg gccgacgcac gcgtccacca cggcgggtggc gccttctccg 60
 gcaaggaccc caccaagggtg gaccgcagcg gcgcctacgt ggccaggcag gccgccaaga 120
 gcatcgtggc cagcggcctc gcccgccgct gcctcgtcga ggtgtcgtac gccatcggcg 180
 tgccggagcc cctgtccgtg ttcgtcaact cgtacggcac cggcacgac cccgacaagg 240
 agatcctcaa gatcgttaag gaaaacttcg acttcagggc cgggattatt agcatcaaac 300
 tcgacctgaa aaaaggccgc aacaagttca acaagaacgc cgcctaaggg cacttcggcc 360

gttacgaagc cgacttcacc tgggaggtgg tgaagcccct caagttcgac aaggcatcgg 420
ctttaagttg ggagtgtcac tgtggacatg aggactac 458

<210> 7818
<211> 443
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-008-Q1-E1-E1

<400> 7818

ggtctagaat acacgggccc agccacgcgt ccagccagag aacagggagg tagagaggag 60
gaggaggtag aaggcgaaag aaggggaacc aaatcttga cggaacaca tagatttctt 120

tggtggagga aggaggagg caacaagagg aggttacagg tagcccaata gatctactgc 180
tgttgagga gttgatgcaa agctgagttg ctgcgcgttg gctttcttta gagatggctt 240
cagctggtgt tgccccttct ggggtacaaga acagcagcag caccagcatt ggtgccgaaa 300
agttgcaaga tcacatgaac gagctaaaga ttagagatga taaggaagtt gaagcaacca 360
taattaatgg gaaagggacc gaaactgggc acataatttg tcacactact ggtggcaaga 420
atggtcaacc anaacagaca gtg 443

<210> 7819
<211> 206
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-008-Q1-E1-E10

<400> 7819

gacgcacgcg tccattttta tttttttttt tttttttttt tttttttata ttgtgttatt 60
ttcatatgaa tacttttggg atcttatattt tatttggaaat ttttttaata acattccaat 120
ttcgagagga ggttctaaag gttccaaact tacgttagcg tacatgcgaa tttatagtgc 180
ttcaatagtg tcaccaaatt tcaatt 206

<210> 7820
<211> 446
<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-008-Q1-E1-E11

<400> 7820

cggctctagaa ttcacggggcc gaccacgcg tccacccacg cgtccgcccc ccacatcatg 60
cagtgcaggt cctgctgggtg aggacatgtt tcattggcaa gcaacaatta tgggaccacc 120
tgacagtccc tatgctgggtg gtgttttctt agtgaacatt catttccgcg cagattaccc 180
cttcaaacct ccaaagggttt ctttcaagac aaagggtcttc catcctaata tcaacagcaa 240
tggaagtata tgccttgaca ttctcaaaga gcagtggagc cctgccttga caatttccaa 300
aggcctgctc tccatctgct ccctgctgac cgacccaac ccggacgaac ctcttgctcc 360
ggagattgcc cacatgtaca agacgggacg gccgaagtac gagtcgacgg cccgcagctg 420
gacgcagaag tacgcgatgg gctgac 446

<210> 7821

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-008-Q1-E1-E2

<400> 7821

gggtcggccc acgcgtccgc ccacgcgtcc gccacgcgt cgcgccgagg cgccgcagac 60
atgcgcccgc ttatccgaac cgctcgtgctc tggctcctcc gcgcgcgtgt tcgcgccatg 120
gccacgcttc ctatggcgctc ccccgccgcc gccatccctt cctccgccac ccgccccgtc 180
gcctccccctt cttcgcgttc tcaccgcccc ctcaaccgct tcttctccgt cgcgccggcg 240
ccggtcgggg cgaaaggggt ccgagcggcg gcctccgccg ttgaagttgg cggcgtaaag 300
atcgcgcgcg aggatgttgt gaaagaagat gacccatcaa acaacgtgcc agacactatc 360
tttgcaaga ttggcctgca gctgcac 387

<210> 7822

<211> 325

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB189-008-Q1-E1-E3

<400> 7822

cacgcgtaaa acgcaacaga gtttgacaca gccagttggt taatccattg gcagtggcta 60
accattggt cgctaccttc ctgcagcagc aacaacaatt gctgccatac aaccagttct 120
ctttgatgaa ccttgccttg cagcaacca tcgttgaggg tgccatcttt tagattacat 180
atgagatgta ctgcacaatg gtgccctcat accgacatgt gtttcctaga aataatcaat 240
atattgattt agatttatct cgatatattt ctgaactatg ttcattcatat atataattga 300
naacatcana tcataatttt aaaaa 325

<210> 7823

<211> 461

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB189-008-Q1-E1-E7

<400> 7823

aggtataggt caggaattcc cgggccgacc cacgcgtaaa gattgacaga ggttctttgc 60
tcttgcgacg acaatggaga aattctcttc tggacagttg gtcagactac atctactcat 120
gttttgcggg tgaagcaggg tggaactgga agagtcaggt ttgaacctcg aagtgggcag 180
ctcctcgctg tggcagctgg aagcatggtg aacatttttg atgttgaaaa gcaatccagc 240
ttaccctgcc ctccaaaggg tcacaatagt gaggtaaact ttgtgtcctg ngatgaaaat 300
ggtgaatatc tggcatctgt aagtcaggac actgtgaaag tgtggtcggg atcgtctggg 360
gtgtgcattc atgagttacg atccaatgga aaccaatata agtcatgcac attccatcct 420
agatacccca aagtgttgat tggttggtggg tatcagactc t 461

<210> 7824

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-008-Q1-E1-E8

<400> 7824

ccccggccga cccacacgtc agcccacgag tccgcacagc cacactgccc ttctctcccc 60

ttcctctctc ctctgcgtcg cttccacctc tcaatctcac cccacgcctg ccccgagctc 120
 caaccctaaa ggaacacacc cctgcttgcg gggcgggga gcggtcttgg gcgtccgccg 180
 ttgctgtggc ccagccgtga cagatccggg ccccgcgccg ttaggtcggg gtttcttcgg 240
 cgacgggtgca gccgctggat gttagtctgg cggatcgggg cccgttggtc gcgtgattcg 300
 aggcgggtgtt gagttgtaac atttgatca catgaatgaa ctcagagcat ctcagtgtta 360
 aaactgtgag catatcaatt cccctccttt aagcaatatg ggagctaatt gctgcattgc 420
 tgc 423

<210> 7825
 <211> 450
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-008-Q1-E1-E9

<400> 7825

cggtcaggaa ttcaccgggc cgacccacgc gtccagcaca ggctgtcaca aagcttgaat 60
 ttgaattcga gaggcggaga gttacaaagg aagacataag ggagcttata tatataggga 120
 aattcttgag tatcatccaa agatgctgag ggagtttctt gagggaaactg agtcaagtgg 180
 tttcatgtac ccaagtgcag tagatcattt taaaaagcag tttgcatacc ttgaagaaca 240
 ttatgccaaag ggatctacag gaactccacc tgagaggcaa cataattcat tgccgccggc 300
 gtccgttgtc caatccgaca accgattaca aaccaaagcc aacatcaccg aagatctttc 360
 caagtgtatg ctcagagaaa atacacagaa gacacatcca tattctgctt ctgttgcaag 420
 taaattttca ccacatgttc ctcaaagtga 450

<210> 7826
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-008-Q1-E1-F10

<400> 7826

aattcacggg ccgacgcacg cgtccaggaa ccttatgtgt tcttctggca gacatgcct 60
 ctattggtgg acatctctaa attagcttaa ggcgatacat gttatgtcca ctagagaaac 120

aacatcctga gacactcacc tttatttgga aatgtctcgc gattatcgct gatgtggaca 180
 tgtgttacat gcttctctac tcttaaaagt cttttgctcc gaatctcgag acgagattat 240
 ttttaaggggg gagggctgta acaccccagg tgtttatatt ctgctcgaca acgagtatgg 300
 aattaagcac gttatatcag tgaatgaaac agatactaaa atttaatcat tttcgctatc 360
 gcgattttta tatcgatatc gttccatctg tcgtgagtgt gacatcattt ttattcgctc 420
 gggctcttcc tgaat 435

<210> 7827
 <211> 406
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-008-Q1-E1-F12

<400> 7827
 ggccgacgca cgcgtccata cgtcaacaag aggatgaagg aagaattccc cgaattcgtg 60
 gagaaacggg agaaggaggg gctggtatat acaagggttc tgggggaggg cgatgaccgg 120
 tcttcgccaa tcggccgtgg atggcagtcg acatttctca ctaaagataa agccgttgct 180
 gaggaaggg cgcceaagct cgggatgaag ctggaatgga ccggcgacgg cgtgaggacg 240
 gtcattggggc ccattccggc ggtgaagtgg gacgagagcc gggggcgga ggtctgggtc 300
 aacagcatgg tggccgccta cacggggtgg aaggacgccc ggaacgacc ggtgaaggcg 360
 gtgaccttcg gcgacggctc gccctgccc gccgacgtcg tcgccg 406

<210> 7828
 <211> 324
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-008-Q1-E1-F2

<400> 7828
 ggcccgaccc acgctcaac gcgactggtg accggattga ggtgaacca atcggtcatg 60
 cactgggggt gccagtctat caaatacaga agtttggggg gcccccaag cggggtactg 120
 cgccatccca tatggatatg gtggcatgcc ccacatttga ttttggacat atgggtggtg 180
 cgggtatgca taatgatacg gcatataatg gatatggtgg tggaggtgtc catgatgttg 240

gtggtggtgg tgtgaccagt gatctttgat gtcataatgt gatatactct acttccagct 300
gcacctgtga ttttttttca ggac 324

<210> 7829
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-008-Q1-E1-F3

<400> 7829

ggtctagaat taccgggccg acccaacgct ccaaacagat tcttgtttca ccgaggaaaa 60
gagagaagtt ctggataaat tgacaatgtc aacttgaatt gactaattca gttccgccta 120
ttccacatta atgggagtac atttatgttt ctgctttacg aatatgatat tttttggaca 180

tttctaataa tagcaagcct tattcctatt ttggtatttt ggatttcagg acttttagcc 240
ccggttagtg aaggaccaga gaagctttct agttatgaat cgggtataga acccatgggg 300
ggggcttggg tacaattccg aatacgtat tacatgtttg cgctagtttt tgttgttttt 360
gatgtggaaa cagtctttct ctacccttgg gcaatgagtt tcgacgtatt ggggtgatcc 420
gtttttatcg aagctttcat ttttgtgc 448

<210> 7830
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-008-Q1-E1-F6

<400> 7830

cccgggccga cccacgcgtc agcggacgcg tgggaggacg cgtgggggtcg aagcgaggca 60
ggggagggttc ggcggggaac aagtccgca tgctgctggg tctgccagtg gccgcgacgg 120
tgaactgcgc ggacaacacc ggcgccaaga acctctacat catctccgtc aagggcatca 180
agggccgcct caatcgctc ccgtccgcct gcgttggcga catgggtcatg gccaccgtca 240
agaaggggaa gcccgcctc aggaagaagg tgatgcccgc cgtcatcgtc cgccagcgca 300
agccgtggcg ccgcaaggac ggggtctaca tgtacttcga agataatgct ggagtgattg 360
tgaatcccaa ggggtgagatg aaaggttccg ctatcactgg acctatcggc aaggagtgtg 420

ctgatctttg gcctaggatt gctagcgag

450

<210> 7831
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-008-Q1-E1-F8

<400> 7831

ttcccgggcc gaccacgcg tcagcgccga gtgctccggc gggaaaaagt tcttcgccgg 60
cgacgcgccc ggttacctgg acgtcgcgct gggaggcttc atcggtggc tgcgcgctg 120
ggacaagggtg gggggcgta agctgctgga cgccggccgg gtcccgcgc tggccacgtg 180
ggcggagcgc ttcgccgcg tcgacgtagc caaggaggtc atcccggacc ccgaccacat 240

cgccgagttt gccaagggtc tgcaggcacg ctccgcggca gctgccacca gcaactgagc 300
tcgcaagtga atgctgctgc tctgccttcc tgataaaatc atatcatggt acccggtttg 360
ttcgtttaat ctggcgcgga aaaaacatgg tttgttgctg taccaaacta agagtatgca 420
tgcattgctt 429

<210> 7832
<211> 456
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-008-Q1-E1-F9

<400> 7832

cggtctaaaa ttcacgggcc gacgcacgcg tccaccacg cgtccgcca cgcgtccgcc 60
cacgcgtccg gtgtgctgct gaccctcgtc atggccgcta cctcacggca tctgctatgt 120
tccgtgggaa gatgagcacc aaggaagtgg atgaacagat gctgaacgtg cagaacaaga 180
actcttccta cttcgtggag tggatcccca acaacgtgaa gtcgagtgtg tgtgacattc 240
caccaattgg cctgaagatg tctccacat tcgttggaac ctcaacctcc atccaagaga 300
tggtcccccg ccgtcagcca acagttcacg ggcattgtca ggaagaaggc tttcttgac 360
tggtacacaa gccaaaggtat ggatgaaatg gagttcaccg aggcanaanag taacatgaac 420
gacctggtgg ccgagtatca gcagtaccag gatgcc 456

<210> 7833
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-008-Q1-E1-G1

<400> 7833

gggccgagcc acgcgtccac agaatatagc tatttgaaga aaaatttccg ggatttattc 60
atccgtgaag gttaccagct tgattacgta tttgattgga ctgtgtcaag gcaagctgtg 120
gacaataaca gattgcgact gagcgggaag acaggtggct tgggtgggacc atctgtggat 180
agggctgaac gagctgcagc aagacaagat gttccagata gattcactgg tcaagctggg 240
gcttttgcta gaagaaccgg ctctggttct ggtcaatagc gagaacacac aaagcacagg 300
actctgttgg attcacttat ggcattcaag atggctgttg attcagataa aagaaagcat 360
tcatcatctc ggaatggaag cacatcaagg aaggctcttc tgtcaagc 408

<210> 7834
<211> 452
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-008-Q1-E1-G11

<400> 7834

acggtctaga attcacgggc cgacgcagc gtccaagacc aacaagcaac atagaaagtg 60
gaatccagta gcaacaatag agcaacaatg gccaacaaga taatttcccc tccttaaggc 120
ccttggtctt ttccgcaagt gttggcaaag cgacaatttt ccttcaatgc tcacaagctc 180
ctatagcttc ccttcttccc ccataccttc catcaatgat agcttcagta tgtgaaaacc 240
cagctcttca accctatagg ctccaacaag caatcgcagc aagcaacata cctttatcac 300
ccttggtttca acaatcgcca gccctatctt tgggtgcagtc attgggaaaa accatcaagg 360
caaaagcagc tggaacaact cgtgctacct gtgattcaac aagtagctct ggcaanactt 420
tctccctact ctcagcanca acaatttctt ca 452

<210> 7835

<211> 418
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-008-Q1-E1-G12

<400> 7835

attcacgggc cgacgcacgc gtccaccac gcgtccgcgg acgcgtggga ctaagttggg 60
ccaataatac caggcccaaa ggcctaggag gaaaaagata aggggtgccc tttctctcct 120
cgacgacgac attctcaact ctgaaacggc gatgtcacgg ctactccgc cegtgtcttc 180
tcctttaccg gcgttctcgc tgccgcgcgc gcttcttctt cgcatccaca tccgcacgtc 240
ggcggtgaga ggcggtgcg gggagaacgc gatggcgctcc gggacgacgg cgagggagcg 300
gcgcctggtc aaggtgcggg aggagcgccg ccgccgcgag tacgaccggg agcacaccta 360
ccccggatgg gccaaagtac tggagaacgc ctgcagggat gatgangagc tccgcgcc 418

<210> 7836
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-008-Q1-E1-G3

<400> 7836

gggccgaccc acgcgtccac agaagactac ctttcatgag aaacagcagc gggctgccat 60
tgtcgtcttc aatagtaggt ctgccgcagc ttctgcattt aagactctcc atgctcaagt 120
gatatataaa tggacagtta tggaagctcc tgaacaacgc cagataatat ggtccaacct 180
tccaaggaaa ctatatgata ggcaaactag acaatgtgtg gtttatggca ttgtctttct 240
catagttgtg ttctatatag ttctctcac tgctatcgct gctgttataa ccctggaaaa 300
cctggaggcg aagctgcctt tctgaagcc agtgggtggag caaccagcaa tcaagacggt 360
cttggagggc taccttcccc agattgcact caatgtgttc ctgcattgc 410

<210> 7837
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-008-Q1-E1-G4

<400> 7837

acgcgtccga agaatgtctt caacggatca cactgccgct cccccacgct aaatttgggg 60
gctacagtgc acacgctagc cgatcaacgg ctcacgctac caggcgctct acgcggatgt 120
gccccctagc cagcttctct ctccccctcg ttctgtggtg cctctctcac cctctctaatt 180
attgttcacg tgggcccact tccaattatt agtagatgaa aaattgatag gaggtgaaaa 240
gtaggtatag aaaatgatat tttatgggtg tagtggggta taggggaagg atttaggggg 300
aaacgctgta cagagtggag atataggggg gaagagaacg ctgacgttgc accttaattg 360
gaatttagga aaagacattt gggcgtaacc gctgaagaca gtctaaaggc tcctctgtgt 420
gta 423

<210> 7838

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-008-Q1-E1-G5

<400> 7838

aggtacaggt caggaagtcc cgggcccagc caccggtcag ggcaaaagcc aaaaggcatc 60
accgccgcga cgacgatggc agcctcgctc caagccgcgg ccaccctgat gcagccggcc 120
aagatcgggc gccggggcgc ctttgcctcg ctgccgtccc gcccgtcgtc gcaactcgcc 180
tgcagggcgt tcggcgtcga cgccggcgcc gccaggatca cgtgctccct gcaggacgtc 240
gccagcaggt gcgtcgacgc cgcgaagctc gccggcttcg cgctcgccac ctcggcgctc 300
ctcgtctcgg gcgcgagcgc ggagggcacg cccaagaggc tgacctacga cgagatccag 360
agcaaaacgt acatggaggt gaagggcacg ggcacgggga accagtgcc cgacat 416

<210> 7839

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-008-Q1-E1-G6

<400> 7839

gaccacacg tcaggttaca ccgctggcga cttgaaactg caaatgatgt ggtattttta 60

tttgcacaa agctcaagat ttcagagtag gaaagagtgg tgtttcagaa acaacagaat 120
acgttgctgt taaaagtgac gctggaacgg tttgctgcac ttactgtttg tgtgtaaaaa 180
tagtgaagtt agtggaatga atgatacctgg ccagtttctc ttaatgaatg attctggccg 240
gtttatgtta agaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aaaacaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aggggggggcc 360
gccccaaaagg ttccaagctt acttacgcgt 390

<210> 7840
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-008-Q1-E1-G7

<400> 7840

ggtacaggtc aggaattccc gggccgaccc acgcgtcagg agtcttgatg atctcattct 60
tgacatacca tctgcaaagt ctgaatttca gttgttggtg tcaaaagcca tttctgaggg 120
atgggtagat tcttcctatg tgaactcagg tgtcaacgga agcgttgaag acgatgaaca 180
tgagaagctg gctaggtaca agagggaggg tgtatccata atacacgaat actttttctc 240
tgatgataca acagagggtca tccgtagtgt caaagagctt gggtatccgg aatacaatcc 300
gatcttcgtc aagaagctca taacaattgc tatggaccgc aagaacaggg agaaagaaat 360
ggcatcggtt cttctccctt cattaagcat ggagctgttc tcgtctgaag acatcgccaa 420
aggga 425

<210> 7841
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-008-Q1-E1-G9

<400> 7841

ggtaccggtc tagaattcac gggccgaccc acgcgtccac tattcttgat gcatctgatg 60
ctttagcttc atgctgctta gcgttagtaa agcctaagca ctagactaca caatagaggg 120
cgtgagcgat ggccaagaag ggtaacttca atcttcggct ctttattgtg ttgaccccag 180

gttatatgaa ttatgttttt ggacaagatg tgtaacgtgc ctaaattcca gggttttttt 240
 tggcttcacg ggaccaggtt tcccttgatg ggttaacgtt gcagcatgcc cttgcggatt 300
 ccgctgggtc tagcatattt gtatgggata aaagatcata aatatttgcc tg 352

<210> 7842
 <211> 450
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-008-Q1-E1-H1
 <400> 7842

cgggccgacc cacgcgtcca cccacagcgt ccgcagggca gctctggtgg ctgatgagat 60
 agcggagcag gctgaattct tctccttcgg aacgaacgac ctgacgcaga tgacctttgg 120
 gtacagcagg gatgatgtgg gaaagttcat tcccgctcat cttgctcagg gcacccctcca 180
 acatgacccc ttcgaggtcc tggaccagag gggagtgggc gagctggtga agtttgctac 240
 agagaggggc cgcaaagcta ggcctaactt gaaggtgggc atttgtggag aacacggtgg 300
 agagccttcg tctgtggcct tcttcgcgaa ggctgggctg gattacgttt cttgctcccc 360
 tttcaggggt ccgattgcta ggctagctgc agctcaagtg cttgtctgag gctgcctcct 420
 cgttggcaac cgggattgcc tgctgctggt 450

<210> 7843
 <211> 134
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-008-Q1-E1-H3
 <400> 7843

ttttattggt catatgtttt cttatatggt gtttttgata tatattattt tctacttgcc 60
 tctatattat attttttaca aagaatcaaa atttaacggg aaaatgtttg tcaatacttc 120
 actagaaaat ttta 134

<210> 7844
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-008-Q1-E1-H5

<400> 7844

cccggggccga cccacgcgtc agagagcagc aagagcacgc cgcgccaagc aacaaagagg 60
gaccccgctt ccatggaggt ggtgggcggc gtgtcgctga ggccgctgcc agcgccggcg 120
cgtatccgga ctaccctgcc acccgctgac gtaggcggac gtttccttct ccgccgggtc 180
gcggggcgcc agccggcgag gcgcgcgctg gtcgtggagg cccggggcgg caggggctgg 240
tcggagcggc agatgcagca gcagcgccgc gcgccgctgc tgccgaaaat cgaggacgac 300
ggcaaccgc gattcgatcat cttcatccgc accgccaatg tctacttctg gtaccgcgtc 360
aacatcatca cgggcggtac gacggcgaag atcatgctcg ccgcc 405

<210> 7845

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-008-Q1-E1-H7

<400> 7845

accacacgt caggcagttt gttgcgcggt ctgccccagc cctgaccccc ggagatccgg 60
ggctgttctc gggtctttac gcggagcgag aggttggttt ctgatctggg gatcggttcg 120
tgcggggatg aatacgaggc cgggtggtgct cgtcttctc ctgctcgtgc tcgtcatcac 180
gtcgcagttc gagtggaagc agcagatcgg ggaggcccg cgcgccgacc cggccgctgc 240
ccgccgccgg cagcagctgc acgccaggga ggatgccgtc aaggaaaaga tcatattatc 300
acaggagaaa aatatccaac agcttaacca gcttatcgag agccttcagc gccagctact 360
gcactgccgt ggtagcaata acactgttca tgctgctgcc gccgtttgca acagaagcga 420
g 421

<210> 7846

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-008-Q1-E1-H9

<400> 7846

cggtctagaa ttcacgggtc gacgcacgcg tccacgggtcc acagctgcat cgagtggctg 60
gacgcgcage ggaccacgtc agtgctgtac gtgagcttct ggagcctgtc ggccatggac 120
tcctaccgag ctccgggagg tggaatgggg tctggctgag tgcggccacc ccttcctatg 180
ggtcgtccgg cgaaacatgg tacgaggctg cgacgtctac accgcacggc acctcccgga 240
tggtttccag gaccccgta agggcatagg cgtgggtggc cgctggggcc cgc 293

<210> 7847
<211> 423
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-009-Q1-E1-A1

<400> 7847
taccggtcta gaattcacgg gccgaccac gcgtccaatg acaacggagc ttgtcttaaa - 60
agacaccttg tctgcaacgg aatgaatgac tgcacggatg gtaccgatga aaaaatgtgt 120
gaaaactggg agtgcaattt tgatgaattg aaatgcccg tttccaacca atgtattccg 180
atcgtctgga aatgcgatgg aaccaaaaca tgcaccaatg gaacagacga agaaaactgt 240
tcagaaacat gcccgaaacc tgatgatttc ttctgccag gagggccttg cataatcagc 300
acaaaacgct gtgacgggtg aaacgactgc tcgaacggaa aagacgaagc cgattgtaaa 360
gatacgtaag actgcgacga ttcccttttag gtcgttaccg ctttgttttt taaaaacatt 420
ttt 423

<210> 7848
<211> 354
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-009-Q1-E1-A12

<400> 7848
acgcgtccac cacacctccg gctgggcaag ggaaatatca aacatgccaa aaataccgta 60
cgggctggga agcctaattt caacctttcc agtggctcaa atcctgggtg taatccgacc 120
attgaacaca atggcctaaa actgggttaa aaaagggaaa attctggtag gaaatggta 180
acaaggggca agaatccttg ggtccaaaaa ttggatggac caacaatggt aaaaaaacc 240

cagtttaacc aggaccatat aaccattgga ttttaattgga accaaaaccg gcaaaaatttg 300
 ggccccaaat ccaaaaaatg aaccattcaa ccctaaaggt taatgggagc aaat 354

<210> 7849
 <211> 431
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB189-009-Q1-E1-A2

<400> 7849

acgcgctccgc ccacgcgtcc gaacacgtct ggccccagga ttatgaacct taacgcccc 60
 gagtttggtc caggtcaatc tcggagtcct aatgggcatc cagcatctcc aaatggtcct 120

ttagcatctc caggtggtat tccatcttca ccacaggacc ttctatcctc tccagatagt 180
 accttgaggt caccagtaac tgcaccccca caagtttctg aatgtagcca gattagtcct 240
 gaaggagatg ttgaggggtg ggggtgtaaag cagaacatgg atgacacgaa ccacccagaa 300
 agtaaagatg gtgaagtgga gcctgagcaa accaaagctc ctgaaggtag agaagaaggc 360
 gcagcggtaa aagatgctgc tgaagagttg attgcagccg agcagcccaa atcctgngct 420
 gactacagcg a 431

<210> 7850
 <211> 452
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-009-Q1-E1-A4

<400> 7850

cgggtcgagc cagcggtccg ccacgcgtc cgcccacgcg tccgcccacg cgtccggact 60
 ccagctcgga gcagatagag cacctagcta gttagtcgca actcgcaacg caagagtgtg 120
 tgactagtga gaaccgacta ccgagtgaac gatcatggcg gcgtctctgc aaggcctata 180
 caatgggggc agcggttgg gcgggagggc cgtccacgcc aggagcggcg gtcgcccgtc 240
 agctgcccgc gtgaagcggc tgctgtcgag gttgaggcgc tcttgagaa gacgcacggc 300
 ggggccgagg cgaaccgagg tgaggttcgg gtatgacctg catagctact aacagaactt 360

cgacgacggc actgccttcc gcgcccacca ccgcttgtag ctcattgact cattgtaccg 420
gaaccctcac ttgtagaaaa ataactgaaa gc 452

<210> 7851
<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-009-Q1-E1-A7

<400> 7851

tcccggtcg acccacacgt ccacccacgc gtccggagac cagcaagcaa catagaaagt 60
ggaatccagt agcatcacta gagcaacaat ggcgaccatg atattttccc tccttatgct 120
ccttgctctt tctgcatgtg ttgctaacgc gacaattttc cgtcaatgct cataagctcc 180

tatagcttcc cttcttcccc cataccttcc atcaatgata gcttcagtat gtgaaatccc 240
agctcttcag tcctataggc tccaacatgc aatcgctaga agcaacatat ctttatcacc 300
cttgtttcaa caatcgctag ccctatcttt ggtgcagtca ttggtagaaa ccatcatggc 360
acagcagctg cagcaactcg tgctacctgt gatcaaccaa gtagctctgg caaacggttc 420
tccctactct cagcaacaag aatttcatcc aatcaaccaa ctg 463

<210> 7852
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-009-Q1-E1-A8

<400> 7852

attccccggg cgacccacgc atccacattc attcattgaa agtatcagaa ggctgggtga 60
tgatcatgta gagaagataa aagcattccc aatggaaaca actataccat tccgagagcg 120
gctgaagata cttggccggg tggctaattc ggaggatctt cctttgagtg caccggagag 180
gaagctaatt catgcctata atgagaagcc tgtcctttct agaccacagc atgagtttta 240
cctgagtgat aactacttcg agatcgacat tgacatgcac agatttagct acatctcaag 300
gaaaggtttt gaaacatttt tggacaggct aaaagcatgc gtttttagatg ttgggctgac 360
aattcaggga aataaagctg aagagctgcc cgagcagatc ttatgctgtg ttaggttaaa 420

tgggatagat tacaccaa atcagcctct tttgactca

459

<210> 7853
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-009-Q1-E1-A9

<400> 7853

tacggtctag aattccccggg ccgacccacg cgtccacca cgcgtccgcc cacgcgtccg 60
cccacgcgtc cgccacgcg tccgagcgga gcggaggagg agagactgat ccacacgcaa 120
agggcatcga cagagaccga gcccaataat aaatcttget ggatacatac aggaacacag 180
gcgaggggaac gagaagttag tttccatgga gaagaagcag aagaagcacg cacacgcgag 240
gtcaaggagc ttcaccggcg gcgggctggc ctcttcctc aggtccaccg tctctcctt 300
ctctccgcc ttcccgcca gcggcaggag gtctctctc aaccaccgca acgccttctc 360
gggccccatc gtcgtctcca tcgtcccgcc ggaggctcgc ggcggcggcg gc 412

<210> 7854
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-009-Q1-E1-B10

<400> 7854

attaccgggc cgacccacgc gtccacacta caccacacca cacacaccg acgacgatca 60
cacacacgta gaagatcgag ttcgttcgat cgtgaccgtg acgcaggaag ctataagcta 120
gccaagacag gaataataat ggcggtcc acggtggcga gcctctctgt cccggtgacg 180
acgacgacct tcgcggcggc ggcggcgcc gacgtgctga tcgtcgtccc gaggagggcg 240
ggcgccgggc gcgtcgtctg gttccccgcg gcggcgcc gcggcgcg cagcgggcg 300
ttggtcgccg tgcggtccag cgggccccgc acgcccgcg agatctccga caaggtgtct 360
gatagcatca agcaggcg 379

<210> 7855
<211> 246
<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-009-Q1-E1-B11

<400> 7855

acgcgtccat gatcggaaga ccacgaactc gctactgacc gtcggggatt ctcggtctct 60
tggctcagcg agttctgctc cacacgcgca acccaatggg atatgcatgc acctggcagt 120
ttactcactg ctgtctactc tgtagccaag aacttccgac acaggcgccc agctgtatct 180
gtcgaccgtt cacctggctg atgagcggaa gatctaccat tcccaatctc aagatgcatg 240
cagtct 246

<210> 7856

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-009-Q1-E1-B12

<400> 7856

ggtctaaaat tcacggggccg acccagcgt ccaacgtaac tttcatcaac tcacacatca 60
aacattatgc ctgcgaacgg agatgggtcg ggcaacaagg gcccgaattg agggtcacaa 120
cctacttcag ggggcttcag gcgataaaac gctgcaacac accaagcatg tagcacctat 180
gcccagagcag gaagcacgag atgcccttcc cggcatgggc gccggcggtg ccgcagcacc 240
catcgccgac gacgcggaac aattcggcgt caacgagccc aagaaagacc cactgaaga 300
agaggacgaa gaacccatcc cagaccatct gaagaccgac acctcgcca agatctccaa 360
gaagcgggac caaccggacc actcagctac ctcccccgag cgctctcacc 410

<210> 7857

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-009-Q1-E1-B4

<400> 7857

cgggtcgagc cagcgtccg accaagcgtc cgcccacgcg tcggcacacg cgtcggccac 60
gcgtcagcca cgcgtccgat gaggatgcac tggagccacc aaggaagcgg cggcaagggg 120

ttcgggtcga ttcccggcgg actacgtctc gtcggcgctc agggaacccg tctacgaagt 180
 gatagaagtg agatcaaagt ggaggatgtc caccatgaaa ataaccatgc ggcagctact 240
 gaaatctagt ggtctccgcc tacgagatac tagaagtgtt gacccatcac tatggttaat 300
 gaattcaatg ccttccctgc tggtagctga gcaagctatt ttactcaatc gtgggttcgtt 360
 gcgagcaatt gctatgtatg cgcgtgttct tatattcagc tataacagcc ca 412

<210> 7858
 <211> 473
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-009-Q1-E1-B8
 <400> 7858

attcccggtc cgaccacgc gtccactcat ctaaccccat tgaaaaatga aattggattt 60
 tcgggagaat tttggaataa aagataaata aagaattgaa tttgaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaattt cttcaaaatg ggggggggaa aaattttttt taaaaagggg gggttcccc 300
 cccttttggg gaaaaatttt acccccgggg tccccaggg gaaaaagggg gaaaaaaaaa 360
 tttcccaaac ccccggggg gcccccaaa aaggggaaaa cccccaaaaa aaaaattttt 420
 ttaaaaaatt ttaaaacttt ttttcccc caaaaaaggg gggccaaaat ttt 473

<210> 7859
 <211> 415
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-009-Q1-E1-B9
 <400> 7859

gggccgacgc acggtccat ctctacctt acctaccgga gcagggagca cgccacacga 60
 gccctttccg ccgcccga aatggtgaac gttcctaaga ccaagaagac ctactgcaag 120
 aacaacgagt gcaagaagca cactctccac aaggttactc agtacaagaa gggtaaggat 180
 atcctgtctg ccaggggaaa gcgccgttat gaccgcaagc attcaggata ttgtggccag 240

accaagcctg ttttccacaa gaatgccaag accaccaaga aaatcgtggt gaagctgcag 300
 tgccagagct gcaagcacta ctcacagcac gcaattaaga ggtgcaagca ttttgagatt 360
 ggtggagaca agaagggcaa gggaacatct ctcttctaag tttctcatcg cccat 415

<210> 7860
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB189-009-Q1-E1-C1

 <400> 7860

gggccgaccc acgcgctccac aaccatctcc aacgcagcaa gcagacacag ggacaggcag 60
 gcagcgagtgc caaccgcgag agcgatcagc gatgggctcc ttcttctcga ccttagtgac 120
 gccccctccg cccgcccgcg acgacccgaa ctgcgccgtg gtggccgcgc actccaaggc 180
 cacctacgac gagcagtggg cgccccacaa gagcagcagc aagctgatgg tgatcgactt 240
 ctggcgctcc tgggtgcgggc cctgccgctt catcgagccg gccttcaagg agctggcctc 300
 ccgcttcacc gatgccatct tcatcaaggc cgacgtcgac gagctcgagg aggtcgcaag 360
 gacatggaag gtanaggcga tgccaacggt cgtgctggtc aaggatggga 410

<210> 7861
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-009-Q1-E1-C10

 <400> 7861

gggccgagcc acgcgctccaa aaatatcccc aaaccctagc tcccgatctc gatggcgaac 60
 cctcgctctt ccttcaacat gaccgtcggc ggcgccccgg cgggccggat cgtgatggag 120
 ctgtacgcca acgaggtgcc caagaccgcg gagaacttcc gcgcgctgtg cacgggcgag 180
 aagggcggtg gcaagtccgg gaagccgctc cactacaagg gctccacctt ccaccgcgtc 240
 atccccgagt tcatgtgcca gggcggcgac ttcacccgcg gcaacggcac cggcggcgag 300
 tccatctacg gcgagaagtt ccccgacgag aagttcgtgc gcaagcacac cgccccgggt 360
 gtgctctcca tggccaacgc cgggcccac accaacggct ccagttctt catctgcacc 420

gt

<210> 7862
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-009-Q1-E1-C11

 <400> 7862

ggtctaaaat taccgggccc acccacgcgt ccaatcgacg gtgccctcgt cgtcaacgctc 60
 ggcgactttc ttgagatcct gagtaatgga aaattcacca gcgttgagca cagggccgtg 120
 gtacacccaa ccagagagag aatgtcggcg gcgctgttcc tgtaccctcg ccagaacatg 180
 agggttggtc cattgccgga gttcgtgaat ggcggtaaag agcggtatgg atcaacggat 240
 tatgaggaat ttatgaagca ttactttgca acgaagcttg acggaaggaa gcacctagac 300
 agattgaagt tggagcagta ggcagtagct atctctaccg tatctatctc gctggaggga 360
 ccaataaata atttttctat gcgatatata ataatggcg accacaa 407

<210> 7863
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB189-009-Q1-E1-C12

 <400> 7863

cggctctagaa ttaccgggct cgagcacgcg tccaagactg ttcggtactg gtacagtcaa 60
 aggaaacggg ggtcaaagag taaatccaca gataggcttc accttcagac cccaaccatc 120
 actccgccaa aacccccgtt taacttcaag ccgagcacct ccattcttga ttcacagatc 180
 gatgtgctca aggccagccc aaaaccactc cctatagaac cccatttcag ctccagctca 240
 aaggacgatg actcctccag ccttgagacc atcgtgaagt gcaaggaagc tgaggcgana 300
 ctgttcaga aactgggcga tgatgccang aaggaggtag acagctaccg gcatatcgctc 360
 cgcacaaaga cccagaaact agaggaggag tacgccacga aggtggcaaa gctgtgcttc 420
 caggagacgg ag 432

<210> 7864
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-009-Q1-E1-C3

<400> 7864

acgcgtccga tcgacgacaa cccaccaaac gtgcagctcc cggggatgta caacaaggag 60
gacaaccccc gcgtgcccac catcgtcacc ggcaacgact tctccacgct ctacgcgccg 120
ctcatccgcg acggccgcac ggagaagtgc tactgggccc ccacccgcga ggaccgcac 180
ggcgtctgca agggcatctt ccgcaccgac ggcgtcgacg aggagcacgt cgtccagctg 240
gtcgacacct tccctggcca gtccatcgac ttcttggcgc cgctgcgtgc ccgggtctac 300
gacgacgagg tccgacggtg ggtgagcgag accggcgctg agaacatcg caggaagctc 360
gtcaactcca aggagggccc gccacgttc gagcagccca agataacgat cgagaagctc 420
ttggagtacg gacacatgct 440

<210> 7865
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-009-Q1-E1-C6

<400> 7865

aatgcccggg ccgacccaag cgtccacccc gatgctcgcc gtgggtgccg tttgctgccc 60
caacgccgtt ccgcgcccc tccactccgg ccatgagctc ctcccagtga atccctctag 120
tcccctgctc atctcccatg gtggccgcag ggagctctgg atccatggcc gtcggcctct 180
gggcgtgagc agcccttggc tctctcccct gcgacagact tcctccacgg tgtctcttct 240
cccaaccatg gtggccggct cctgctcct ccattcggtg cccttggttc agggccggtc 300
gacctccggc gacctcctcc ccatggcaca gcaggccgac gccctgcct ctactccatc 360
ttccccattg gacagcacga gtcatactc gccgatacgc cagcaaccct gcatcagcgc 420
cactcgatgt cctctatacg tgaacaacag c 451

<210> 7866

<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-009-Q1-E1-C7

<400> 7866

ggtagcaggtc tgaattccc gggccgaccc acgcgtcaaa tgtaagcagg gtcctcttgc 60
tgcaccaact ctgcagttgc tgacgaaaga agatttgagc aaaatgtact tcagtgactt 120
caagatgatt gacatcaatg gatatgcatg ctttctgacg agaactggct acaccggcga 180
agatggtttt gagatctctg ttccgtcaga gaatgcagtc gatcttgagc aggccatcct 240
agagaaatcg gaaggcaagg tgcggctgac cggcttgggc gcccgtagaca gtctccgact 300
ggaggcaggc ctgtgcctgt acggcaacga catggagcag cacatcacgc cggtggaagc 360
cgccctctca tgggcgacgc gcaagaggag gagggcagag ggcggtttcc tgggcgcaga 420
cgtgatcctg aagcagctcc aggaaggccc aaa 453

<210> 7867
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-009-Q1-E1-C8

<400> 7867

ccgggcccgc ccacgcgtcc agcaccatc tctattcttg agaatcatga gctggcgagc 60
attgtgctgg attacaaaag ggagtgtggc cgggatagtg tgctgcaatc acacacctct 120
gtgcacacgg attgcaacag tgagtctgga gaaacaacct tgcactgtga gcatgtgctg 180
agccttgaat caggtccgac catggtgaag gcccggaaca tgtggaggcc taagagaacc 240
aaggcccaag aaacagttgt tccatcttca atttgaattg tgtgagacgt tcgggatggc 300
gattttggca acaaactact actatttggc aaaaagatca gaatggttac tagcgtcctc 360
tattggaagc aagtcacaca gggcgagacc taaactaatt taattatgaa gtgtgaacaa 420
tagaggagat ataaatagtg tgaaca 446

<210> 7868
<211> 387
<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-009-Q1-E1-C9

<400> 7868

gggctcgagc acgcgtccag cccagcacc ccatttcct ctccctctcc ctcacacgcg 60
cccacacctc cgctgccacc gccgttcacg ccgtgctgca tctgcagccg cgccatcgcc 120
catcacctgg tgccccgccg ctctgagctc gcatcgctgt ccgccgagga gcctgcgtgg 180
agccgttgcc gagatcgca tttgtttccg cgctccgagg aatcgacgat caagcgctcg 240
cgaccaaagt atcaagctct ctgagtttta tgaggttgaa gatcctgagc atctgtttgg 300
tgaagacgag caagctgcag aggatcctga ggttcaacaa gtagagatag ctgagcagga 360
ggtcattgaa ggagaagaac aggtgggt 387

<210> 7869

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-009-Q1-E1-D10

<400> 7869

cggtctagaa ttcacggggc gaccacgcg tccaccacg cgtccgcgga cgcgtggggg 60
ctctggtcag attggcggtt cccgtgttct tcttctcgc agcggcgag ttcgcggcgg 120
ggacgcggtc gccgtcggct ttcgtacaaa acgccatcta ctccaaccgc atcaccatct 180
tctccaagac ttactgcccc tactccatgc gtgctaagca catatttcga gaccttaagg 240
aagatccata tgttgttgaa ctagataccc gagggtgag gcgtgacatt caaagtgttc 300
tcttgacact agttgggcgt cgtactgtgc cacagggtgt tgtcaatgga cagcatattg 360
gtggctcaga cgatacagta aatgcgcttt caaatggaca gctccagaaa cttctcggga 420
agagtcagtc acaatgatgg gtcgctggac aagcttgac tgt 463

<210> 7870

<211> 401

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB189-009-Q1-E1-D11

<400> 7870

gggccagaat taccggggccg acccacgcgt ccagttactg gttcacaatt actgaagtat 60
tatgcactta gtgtgaacca tctgggttcgg taacgttggg tggtttcagt gctggttaac 120
atgtgcttgg taacattctc tagtaaccaa actttgctat ttggacagtg gaagtttgca 180
tacatttcac tcggtcgtcc tgactatttt gaagattcag atactgtagc cctaaaattc 240
cagagaaaca tgtatggagc ttgggagcag tatcttggac tggaacatcc ggacacggct 300
cctaagaagg cacacacggc taatcagaac cggcattcat tcgagagacc tgtaaaaatt 360
tataactagg catgttagan attgagcgat gagctgccgc t 401

<210> 7871

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-009-Q1-E1-D4

<400> 7871

acgcgtccga ccaagcgtcc gcccacgcgt ccgcaccctg ggtgctgagg atgaactgaa 60
ggatgctgtt ggcctgggtc gccaathtag tggtgccttc gaggtgatca ctggtttcag 120
gctgtacaag agcggagttt aactagcga ccattgtgga actacaccga tggatgtgaa 180
ccacgctgtt ctggctgttg gctacgggtg cgaagatggg gtcccctact ggctcatcaa 240
gaactcatgg ggcgctgact ggggtgatga tggttacttc aagatggaaa tgggcaagaa 300
catgtgcggt gttgctacgt gtgcatccta ccctattgtc gcatgaaggc cttacgaaat 360
gttacatggt ctgtttggca tcaataatgc atgtttaacc tg 402

<210> 7872

<211> 464

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB189-009-Q1-E1-D6

<400> 7872

attccccggc cgaccacgc gtccacgaga agatcctcgt cgaccacgaa gaacggaggc 60

gccttgctca agcttccggc ggcgagtttg tggcgactga cctcgctgac gtgctgctgc 120
 agctcagcga ggagagcacg aagctggagt cggagtcgga ggccaggctc cctcgcgacg 180
 gcgtcaaggc cctcatccag gacatcatcg ccggtggcac ggagagctcg gcggtgacga 240
 tcgagtgggc catggcggag cttctgcgac acccgaggc catggccaag gccaccgatg 300
 agctcgaccg cgctcgtaggc agtgggcgct gggtcgcgga gcgcgacctg ccggagctcc 360
 actacatcga cgccgtcgtg aaggagaccc tgcggtgcac cctgtcggcc cgctcctcgt 420
 cncgcactac gcccgcgagc gcacggtggt ggccggtac gacg 464

<210> 7873
 <211> 452
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-009-Q1-E1-D7

<400> 7873

aattcccggg ccgaccacg cgtccagcgt tcgattcgct tgtgctgcag ctagggttta 60
 gaggttttct gggcgcgag cgggagcgg cggcggtat ggctgcggcg gaggaggaga 120
 tcgcggtgaa ggagccgctg gatctgatac gcctcagcct cgacgagcgc atctacgtca 180
 agtccgatc cgaccgcgag ctgcgcggca agtccatgc gtatgatcaa catttaaaca 240
 tgataacttg agatgttgaa gaggtcgtga caactgttga gatagatgat gaaacatatg 300
 aagaaattgt gcgcaccacg aaacgcacta tcccctttct ttttgtccga ggtgatggtg 360
 tcatattggt ttctccaccc cttcgtacgg catgaagttt gaagttagat catgctggtt 420
 gttaattatg ataactggtg tatttggcca ct 452

<210> 7874
 <211> 465
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-009-Q1-E1-D8

<400> 7874

attcccgggc cgaccacgc gtccaccac gcgtccgaaa gtgcaaggag atgccacagt 60
 ggatgctgtc tttgctaaga tcgacgagct gctgggttct atcctggaga agaaaaatga 120

aatggtgtcc agcacatgag caaggggaat atatctgaag cacaggacga cacgtacaag 180
 taatgtaagc cagtctcacg taatggaaat ttctccatgt ggatgtgggc aaagcatagg 240
 attttttttc tccaattgtt aactgtacgc gaatggaagc gacagatcat tcgtaggttg 300
 tgagggtctc aaagatcatc tgctgctgta catgttttgt tgctgtcttg tgaacataca 360
 tgtcttggtg tttctcaact ggaggaatgg tgtaacctg ctgtatcatt tccttgaatg 420
 gcttacgtga gagggaggag gacctgagca gcagctcttg caatc 465

<210> 7875
 <211> 440
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB189-009-Q1-E1-E1

<400> 7875

ggatcaagnat atccgggtcg gccacgcgt ccatctaatac gttggcttct gtacacggaa 60
 caagcacctt ctgcatggct gaattttgca ttgtgtggct tgggtgggat cgtcacagca 120
 tatgcttttg tttggatttc gaagtattac acggattata aacacgagcc agtccggctt 180
 ttagctcttt cgagttccac aggacatgga actaatatta ttgctggagt aagcttggga 240
 atggaatcaa cagcactacc agttctagt ataagtgttg ccattatatac agcatattgg 300
 ctggggcaga cctctggctt ggtggacgag tctggcaacc caactgggtg tctttttggg 360
 acagctgtag caacaatggg gatgcttagc actgcagggt atgttctcac catggacatg 420
 tttggtccta tagctgacaa 440

<210> 7876
 <211> 436
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB189-009-Q1-E1-E12

<400> 7876

cacgcgtcca cccacacgtc cgccacgcg tccgcagcag tttggcggcg gctgatggcg 60
 ccaagcgcag ccgcccggcc gccgtccctg gcccgcccat cgagcagcag ccacctgcgg 120

cgcgcggca ggcctccca gcccgctctc gtcccgcg ccttggtgca gggcgagg 180
 cgcctcacgg ggcggtccg agccgcgccc gacgcgccc cgggtggcat ggcggccgtc 240
 agcgccgtca ccgagctcct cagagccctc tcnccgaaca aggcgctcag ggcgctgct 300
 acccagcagc agcaggtcga ggagccggag ccgatccgg acccgacctg cggcagcgtc 360
 gaggacgtgg tcgccgtgct ccgagacgat ttacggcgcg cctacttcgt caccggggat 420
 ttactccgg gaatat 436

<210> 7877
 <211> 393
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB189-009-Q1-E1-E4

<400> 7877
 acgcgtccac ccacgcgtcc gcagatcgag aggtacagca cgaaaagag aggcaagaga 60
 gataggggac cggagggcgg cgggcccggg cccaagaccg aggggctctt gcgcaggaag 120
 ctgatgaggc tcctgtcgtc gtcccttc ggctgccgtg ctggacccat cgacgacgcg 180
 ccgcccggc tggaccacgc cgccgccga aggaggcgcc ggaggaggag ggccaacagg 240
 gccgcccagc tgctgggggc tgctgcgggt gcgcccagc agtggcgccc ctgctcggc 300
 gacatctgcg aggagtacag cagcagcacc gacgccgtca aggtcangaa ggcggcgctc 360
 tgggaactcg cccgggcgct gcccgcgcg cac 393

<210> 7878
 <211> 348
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-009-Q1-E1-E6

<400> 7878
 aattcccggg ccgaccacg cgtccacca cgcgtccgc cagcggtccg cccacgcgtc 60
 cgcccacgcg tccgggacca atgacaagga gaaggtggc gatgtccca acctgcagct 120
 caccttcagc cagcaagcaa ggagaagcac cggttcaag caaaaggaga ttaattatct 180
 agctgactgt gatggattgt atgtcatttg catgtgtttg ctacttatgc gatggacgtg 240

taagccatat attgtatttt attgtagaa tcaggcaccc ctgaattata ttgttgcaaa 300
 aaaaaacagt taacaacata aaaactgtat gcttgaaatt tgtaacat 348

<210> 7879
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-009-Q1-E1-E9

<400> 7879

ggctctagaat taccgggccc acccacgcgt ccagttccat ttccccatct cccagatcca 60
 attcgcgagt tctccctcct ctgccgccat ggcgctctct gtggagaaga cctcgtctgg 120
 acgggagtag aaggtcaagg atctctcgca ggccgacttc ggccgcctcg agattgagct 180
 ggccgaggtc gaaatgccc gcctcatggc gtgccgcgcc gagttcggcc cgtcgaagcc 240
 cttcgtggc gctaggatct cggggtctct ccacatgacc atccagaccg cgcctctcat 300
 cgagaccctc accgcgctcg gcgccgaggt ccgctggtgc tcctgcaaca tcttctccac 360
 gcaggaccac gccgcgcgcc ccacgcgcgc cgactcggcc gcc 403

<210> 7880
 <211> 442
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB189-009-Q1-E1-F10

<400> 7880

ggctctagaat taccgggccc acccacgcgt ccaagctaga agcctacaac tagctgttcc 60
 ttagctagag ccataaagga attgagggtta caactcaacc cctgtttgaa cggcactgca 120
 ggttgctgta naggcaattg tcgaggtcgg agatgcaaag gaggtgatat gtgaagtggc 180
 tgagaagaaa aatgtcgatc tgctggttct tggaagccac agtcgtgggc caatacagag 240
 gtatacatgc atcttggacc catcaagagt taatcctaag cacttgggtca ctggttttct 300
 caccactatc cttcatcgtc gctgcagggt gttccttggg agcgtcagta actactgtgt 360
 acatcattct aagtgtccag ttcttgtggt gaagaacaaa gctgatgaag gattcaactc 420

ccagctgcta gtcctaataca tg

442

<210> 7881

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-009-Q1-E1-F2

<400> 7881

gggcccaccc acgcgtccac tctctctacc gtccgatacc ccaagcacca gcgcggcggc 60
ggcgaccatg gctgtcggaa agaacaagag gatctccaag ggaaagaagg gtggcaagaa 120
aaagaccgtc gaccctttct ctaagaagga ttggtatgac atcaaggcac cgtcgggtgtt 180
cagtgtgcgc aacatcggga agactctcgt atccaggaca cagggtacca ggattgcttc 240
tgagggtctg aagcacagag tctttgaggt ttgcctagct gatcttcagg gcgacgagga 300
tcaagcttac aggaaaatca ggctccgtgc tgaagatgtg cagggcagga atgtgctcac 360
aaacttttgg ggtatgaatt ttaccactga taaactgaga tccctagtga agaagtggca 420
gacattaatc gaagcccatg ttgatgtcaa gacaaccgac a 461

<210> 7882

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-009-Q1-E1-F4

<400> 7882

acgcgtccag cagcagaggc agcgacacga tcgcgagcgc acgcacgtaa gcacgttgtc 60
ggaagctcaa gttagaagaa ccaccattga ctgatcaatg gcggcccagg ctctcctctc 120
cggccggaac ctgctgggcc gcccctgca gtcggccgtc tctaggtcgt cggcgaggaa 180
ggcgcccttc gtcgtcaggg ccagctccag ccctccagcc aagcaagggt cgcacaggca 240
gctgtgggtc gcgtccaagc agtccctctc ctacctgat ggacgctgc ccggcgacta 300
tggtctcgac ccgctgggcc tctcggaccc ggagggcacc gggggcttca tcgagcccaa 360
gtggctggcc tacggcgagg tgatcaacgg ccgctacgcc atgc 404

<210> 7883

<211> 482
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-009-Q1-E1-F8

<400> 7883

ggtagcaggtc tcggaattcc cgggcccacc caccggtcaa ggccggcccg cgcagctgcc 60
ccgggaagag cctcgccatg gccaccgtgg cttcttggt cgcgacgtg ctgcacgagt 120
tcgagctgct cccctcgccc gtcgacctgt cggaggtgct caagctgtcg tgcgagatgg 180
ccgtcccgtt ggcgctggcc gtgacggcga ggccccggca agcgggttcag aagtcggttg 240
gggtatcagt ctactgtga gcaatagcat ggccggctgg cgctactgta catggaaagt 300
gcttctgctt gcaggttgct actactcggc cgacatgggt atatgctttt catgttactg 360
tctttgatgt gtatcgatca ggtgccgaat gtgatacttt ggcttgtagt gttagctctt 420
ttcctgggtg ctcttttctt tccttttctt agtactcgct gttagactcg tcaaagtgtat 480
at 482

<210> 7884
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-009-Q1-E1-G10

<400> 7884

gggcccagc acggtccac ccacacgtcc ggaacaatcc agcagctcg aaaaaagggt 60
acgaatacga accccaatcc agggccggag gagggcgagc gaactcaaaa gcaagccgtt 120
ccagtccaat ccgcctcagt ccaaactctaa tcgccgggtt taggcagaag gggccgggacg 180
cggcgaggtt taagcggggt ttgttttgct ccttccgtgc gattctgctc tccgcgcggg 240
aggcaagtac tgacggaagc gaaggcgaag gcggaggagg gggcccccg cgggtggaagt 300
ggaacgcgcc gatgcgcaag ttccaggact ccatcaaggc cctccaggcc gacatcgatc 360
acgccaatgc gatggcgctg gaattcctga gggactacga cggctcggtc atccagatgc 420
gggtggcgta cagcgccg 438

<210> 7885

<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-009-Q1-E1-G11

<400> 7885

acgcgtccat gtcacccac tcgtgggact gggcgtgcc aagcaccagg aggctcggct 60
gcctcaagaa gggcggaggc ggcgccgaca ctaatggcgg cgtggcagag cagagcgtgg 120
aagagcagag aaaggatatg gaatcggcat aacattttctt tcgccttttt gtcctctctg 180
cctttcaaat ttcttccttt tttttaggga atttaggtac ttcgggtcaat ctcaatggcc 240
attgtttcat ttacagttt ttaacagtgc tacgtcaggt ccataagata gttttatcct 300
gcggtttcat agccataact gaacctttga cagggcgtaa attaataagag gaactagggt 360
agatgattac atgacagtca actgaactac tgcaagaaga aagatatatc tccc 414

<210> 7886
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-009-Q1-E1-G12

<400> 7886

aattcacggg ccgaggcacg cgtccggttg tatcgtgtgg gttgagttgt gtgttggtt 60
gtgctgtacc ttcttctatc tattaatgga aagatacgca gatctcctaa aaaaaaaaaa 120
aaaaaaaaaa aaaagaaaaa aacaaaaaaaa agataaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaga caaacgaaaa aataaaaaaa aagacaaaaa aaaaaagggg ggctgcccaa 240
aaggatcaaa gctaaatacc cgggtcaattc aaattaaaac cgcttcaaaa gagaccccaa 300
agtcgaaata aggggccgcc ctttaaaaaa cacttgacag gaaaaaccct gagatatccc 360
aactaaaccg cggtgaaaaa aatccccctt ttaaaagctg aggaaacaca aaaaaggccc 420
gaaccaatcg ccattccaaa aa 442

<210> 7887
<211> 405
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-009-Q1-E1-G2

<400> 7887

gggccgagcc acgcgtccac gccgcctcct ctcccagtgg gtccctccgca tctcccatct 60
cncgtctcnc ctcttctctc tcccctgcga tctccaccgc atcacctccc tcgaacccta 120
gaccacacca cgcgcccatt gccttcggtc gccatgtccg ccgctcagct tctccgtcac 180
tcgcgcaagc tgcggagttt gcaaaatcct gtaggttggtg agaatttttag ttttggtcgg 240
catttctcca gcggttctgg gtcctttatc gccagggaaa atggtattgg naaaagaacc 300
agaggtacca gattttccca gcataaccag cctgcaaac agctcgagac attctcagca 360
ggagtaaagc gaagctgcac atggagaata gcatccaaca gcctt 405

<210> 7888
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-009-Q1-E1-G3

<400> 7888

gggtcgagcc acgcgtccga tgcaattgta tctttaattg agtcactgag gaatgatacc 60
gtttcggagg aagctgctgg tgctctggct ctgctgatga agcagcctag catcgtgcac 120
cttggttgta gctctgaaac agtgatcact agccttggtg ggttaatgag gcgtgggact 180
ccaaagggca aggagaacgc agtgtcagct ttgtatgaga tatgccggag aggtggatcg 240
acattggcac agcgcgtggc aaggataccc gggttgaaca cggtaatgca gaacatcacg 300
ctcactggaa cgaagcgtgc caagaagaag gcaagcctga tcgtcaagat gtgccaaaag 360
aaagcaaagc ccatcggcgc tggcgctagg aagtaccttg gcagtgggtg atcattcggt 420
ggtagggaac agcagattga ggcgcgct 448

<210> 7889
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-009-Q1-E1-G4

<400> 7889

cacgcgtcca cccacgcgtc cggaagattg ggggtcaaac ggtatccggc ttgcacaaga 60
 attcagttct tgaaaatttt ggagtcaaaa tccgtgcaat tcaagattat tctctacaat 120
 tcaaagatat tgtgcactgc cgtgcggaaa ttagggattt tgatgctttt gatttgcgat 180
 tgaggcttcc tgctgtggtt agcaaattgc acaaacttat caactgtaat ggtggtgtaa 240
 catatataca ttgtactgct ggacttggaa gagctcctgc tgttgcatg gcttatatgt 300
 tctggattct tgggtacagt ctcaatgaag gacatcggct gctacagagt aaaagggctt 360
 gctttccgaa gttggaagcc attaagttgg caactgctga cattctgaca ggattatcca 420
 aaaacacaat cac 433

<210> 7890
 <211> 354
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-009-Q1-E1-G8

<400> 7890

ttcccggggc gaccacgcg tccacggacg cgtgggcaac gtcgtgttcg acgaagacga 60
 ggtgccgagc ggcgtcgacg cctccaagat ctgcgaggag gagtacctca acgcgccagg 120
 cgagacctac tccgtcacc tcacctgcc gggcacctac ggcttctact gcgagccgca 180
 ccaaggagca ggaatggtcg gcaagatcac agtcaactaa agctagctat ccattccatg 240
 catctcgatc tgtatgtact ccgcccgtcg atggatgatg catccatctc tacttggttt 300
 cctcacatgt acaacaatta atgcaacaaa ttaagtacgt aaaaaaaca ccaa 354

<210> 7891
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-009-Q1-E1-H6

<400> 7891

ccggggccgac ccacgcgtcc acccagcgt ccgcccacgc gtccggtctt gccctgaggt 60
 ggaagcgaag ggattctggc aagctgatgg ctgcagatcg atctcggtat ccattggtgc 120
 cgagagcatc tcgccaagag ccagagcagg gctgggttca gcaacaccag cggcgtacaa 180

catgccttga gcagcagacg tatgggctgt tgccctctgc aagaagctct ccagcgacac 240
cagggcacgc tccatcttct caaacggctc ggcgctcaga aggcggatcg gagacatgac 300
tggcgtctcc gcgcccaccg tctgcaggaa cggcacctgc tgttcttcga ccttgggttc 360
gtcgacgaag aagtccatct tcggaaccct cctcttcttg ctgaagtggc ccgccccgt 420
cgccgacccc cccgaaacga ccccg 445

<210> 7892
<211> 446
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-009-Q1-E1-H9

<400> 7892
gggccgaccc acgcgtccaa ttggaacaaa ccatcagggc acaacagctg cagcaactcg 60
tgctaccagt gatcagccaa gtagctctgg caaaccttct tccctactct cagcaacaac 120
aatttcttcc attcaaccaa ctgtctacac tgaaccctgc tgcttatttg cagcaacaac 180
aactactacc attcagccag ctagctactg cctactctca gcagcaacaa tttcttccat 240
ttaaccaatt cgccgcactg aaccctctg cttatttcca gcagcaaata ctactaccat 300
ttggccagct agctacaaca agccccgctt ccttcttgac acaacaacaa ttgcttccgt 360
tctaccagca gtttgtggct aaccgccaa cctttttaca actgcaacag ttgctgccct 420
ttgtccaact tgctttgaca aacca 446

<210> 7893
<211> 460
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-010-Q1-E1-A1

<400> 7893
gtaccggtct agaattcccg ggccgaccca cgcgtccacc cacgcgtccg cccacgcgtc 60
cgctcacttt attttattta tataatacag tccatttagc taattttgtt tgatgtgcag 120
tgacacgacc ttgacagtca agatgctctt ttaggttatt ttctcctgaa gccacttctt 180
ttgcgatctc ctaatgttat ggtcccatta catctccatt cattgcacga gatgggtccca 240

attaccttac atggatctgt tggacacaag gaagccatcc agatatgcta ttaaaaatcc 300
 tgctagtcac tatggcttta aattgtacca tgtatgttct attttcagct aggcagagca 360
 tgttctactt acagcaggcc agcagacacc aggcattaac gtgatgtatg agtcacatat 420
 caagatggca atttttttgg cagctttcac agtgaatcag 460

<210> 7894
 <211> 419
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-010-Q1-E1-A11
 <400> 7894

ccgggcccac ccacgcgtca ggcactctat gacactaacg gacgccaagt accacaagag 60
 ttggtagaaa agcttgggaa ggtgtttgag aagatactgg aagagactgg caaattgagg 120
 gaagaaatca atgaagatat gtctatcgca aaagccatcg caattgttat ggctagaaat 180
 ccgcacttga ggcaagaagg gattgctcat gaggttcttc agtggtatatt gtgccgtatg 240
 gagggttggt ttgccaccga cgctgattca atttactac agggttggga tcaggagggtg 300
 ctgcttccag gtggccatgg cctcatggtt cgtgggtatc gtccggttat aaatactctc 360
 gcaaaaagct tagatatatc cctcaaccat aaggttgtgg aaattgtttc gcataggaa 419

<210> 7895
 <211> 409
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-010-Q1-E1-A6
 <400> 7895

ccgggcccac ccacgagtca gggcaaagct tcgagcaaca acagcttgct cgactcagcg 60
 cccatctatc tctcttctcc cccgcctgtc tagccagcgg cgccaccac caccgttcag 120
 ttattatagc aagcatgacg aagcacggcg tggatgatcg cccggaggac gtcacggagg 180
 cgcggcattt ctggttcccg ccgcccagga tcgcgggcgg cggcgagtcg tgcaggaagc 240
 tggcggcgca tgtggacctc ggccccgcgg tcgtggggtc ctgtctcgac tccatgaagg 300
 cctcgtcgcc caggcatagg ctcatggtgc ccgtgcccgg caccgccgac gcggagcatc 360

acgactggat ggagctgcac ccgtcggcat tggaccgctt cgacgcgt

409

<210> 7896
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-010-Q1-E1-A8

<400> 7896

ggtagctagtc aggaattccc gggccgaccc acgcgtcagg gaagatgacg caatggctac 60
tgccgggggaa gctgctcctg ctgtttttga cttaaccaa ggtggcaacc ctctgtctgc 120
tggtggtctg aacttcaact gatacagtct ttgatcgaaa ggggtgtaat tccctcagtgc 180
atgggcttgg cattggcttg tctgacaaa ttagtcttgg tgcactccac gtgggatata 240
atggtttgtg gtgagtccaa taaactcaag atttcgaagg gagatgggct gagcattata 300
ttcccaagtgc aaccatggct atcaatatcg cagggtctgt aacaaggatt atataatcgt 360
cgaacattag agcgtggggt cttgagaacg ctactctagg ttgtgcgtcg tttaattata 420
tctggctact gtaaggcatt cctgattggt ttgggtttt 459

<210> 7897
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-010-Q1-E1-B10

<400> 7897

ggtagcgaat tcccgggccg acccagcgt caacgccgac acgcgcgcgc gccgcgcgcgc 60
gccgccattc tcccatccgc ccccggtccc ccgcgcgcct tccctaacct cgccgcggca 120
gacgtcgcgc cgtgcgtagc tagcagttcc ccggcgacgc cgcgtcggat aagaattggt 180
tttggtcgtc cggtcacc cagccatggg tccctcgacg cccattcccgc cggcagtagg 240
ctcaagctta ggaactcgca accgaggatg aattggacgc ttcgtgatgg cgggcgcgaa 300
ggcagatgta tacgcacaaa cgggaaatgt 330

<210> 7898
<211> 432

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-010-Q1-E1-B11
 <400> 7898
 attccccgggc cgaccaagc gtcagagctt cataacttggc ctcttgtaa actattgaca 60
 atgtatcttg ttttttggtg aaaagtttag tacttgagtg tcaatcatat gtattcgctt 120
 gctaaactat tgacaatgta tcttggttctt tgttgaaaag tttagtactt gagggtcaat 180
 catatttcag agtcattgtg atatactgag cttggagggtt ttggccattg atctgcagaa 240
 gttcaatata attggaagaa taagttaaaa aaaacgtggc ccaaagtaac cttcagcagt 300
 aatgtttgtg tgctaaatgc tcttcgggag aattgtgggtg atgcaaact tgtaccaatg 360
 aatatactgt caatctgcta tcttttcggt ggcctctaac tcttagagtg tgtttgggtt 420
 gagggtgagga at 432

<210> 7899
 <211> 294
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-010-Q1-E1-B4
 <400> 7899
 gggccgaccc acgcgtccac gcgcacttaa gtgtaggagt tgggtgaaac cctagttgca 60
 tgaactcagg attccttttt gagatggata ctagtatgct aggtcgagta gctgctatgc 120
 taaatcagga tctcggtaga agtcgagtga tttttctagc actcgcgcga ggtcaggaat 180
 tgggtgtatc cattttgata acagaatgat gatggctctg ggacacggat ccatgtggat 240
 gtgttgtcta tgagacgaaa ttggaataag gattaacgtg cagatacctg tgtc 294

<210> 7900
 <211> 453
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-010-Q1-E1-B5
 <400> 7900
 aattccccggg ccgaccacg cgtcagtgtc tatggattat ggctagtatc tggtatctgc 60

gaggtctggt ttgccttgct ttggcttcta gatcagttcc caaaatggta tccaatcaac 120
 cgtgagacat atcttgacag gcttgacattg aggtatgata gagagggaga gccatcacag 180
 ctggctccca ttgatgtctt cgtcagtaca gtggatccat tgaaggaacc tccactgatc 240
 acagccaaca ctgttttgct cattctttct gtggattacc ctgttgacaa agtgtcatgc 300
 tatgtttctg atgatggttc agctatgctg acttttgagt ctctctcaga aaccgcagaa 360
 tttgctagaa agtgggttcc cttttgtaag aagcacaata ttgaaccaag agtccagaa 420
 ttttactttg ctcaaaaaat agattacctg aag 453

<210> 7901

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-010-Q1-E1-B7

<400> 7901

aattcccggg ccgacccacg cgtcagaagc agatcgacta cgcagctagc tcgaggttga 60
 aggcattggct gcatccaaat tctacgtcgc cagctgcgcc ctctcctaa tcggcgtggg 120
 gctgctgggg cagcagggtta tagttggcgc cgtcgcttgc cccagttct gcctcgacgt 180
 ggactacgtg acttgcccgt cctccggctc cgagaaactc ccggcgagct gcaactgctg 240
 catgacgccc aaaggctgca cgctccatct ctccgatggc acgcagcaga cctgcagcta 300
 gctctgaacc aaagtgtgcg tgattcgatc tggacaaaga ccaacctgct ggttttcgca 360
 aataaagctt tcgcgcctgt atatggccat ccgaataaat gtgtgatcgt ctatatagaa 420
 acgtgaaaaa ctatctatat atatatat 448

<210> 7902

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-010-Q1-E1-B8

<400> 7902

gtacagggtcc agaattcccg ggccgaccca cgcgtccacg gacgcgtggg atgaccagtg 60
 actttaggct tggcgggacg gtgggagcag gtgcgcagtg cgcttctgtc ccggaactgt 120

gggatcttgc tcttgccgtg ccgtgcttca ccgcttctgg ttcgtcatgg tatacatgta 180
 tatggaatgt cttctggttg ccgacgaaca tacacaaata cacaataaaa tcacaaagaa 240
 aataaaaaag acataataaa ac 262

<210> 7903
 <211> 414
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-010-Q1-E1-B9
 <400> 7903

attccccgggc cgaccaagc gtcagcccac gcgtccgccc acgcgtccgt tttttttttt 60
 tttttttttt tttttttaca atacaatcgt acatatagta cgttttattc gacaagcagc 120
 ctctgcatgc aataatagta caacccccga tttaattaat tggactaatg catgctgagg 180
 atggatcaga tggagatgct gctggggatg cccctcccgg tgactcccgg cttggagaag 240
 ggcttgagca gctcgtacgg cacgatcccg gcgccgcagc ggttcttgag gtccagggtg 300
 ttgttgact cgtcgatgaa ccctcgcac tccttcatcc tgccgccgaa cttctcgaac 360
 gccgccttca ccatgggctc cgccagccac gacggctccg cgaactcccc caag 414

<210> 7904
 <211> 381
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-010-Q1-E1-C1
 <400> 7904

gggccgaccc acgcgtccac ccaagcgtcc gccacgcgt ccgggtgacc accgagaagc 60
 gggcgctggc cacgcggctg tcctcctccg gcgacacgtt cccggggctg gagcaccggc 120
 cggcggaccc gaagcgggtg atggcggagc tgggcgccga caagctgcgc gtgcaccagg 180
 tgggtgtggc cggcacgcac gactcggcca ccaacaagat cggcgtgccg ctggtgaccc 240
 gccccttcgc gcagtgccag tccatgtccg tgtacgagca gctggccatg ggcacgcgcg 300
 tcgtcgacgt gcgcgtgcag gaggagcgc gccgtctgcca cggcatcctg gcgacgtacc 360
 ccgtggacgt ggtgctggac g 381

<210> 7905
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-010-Q1-E1-C12

<400> 7905

attccccgggc cgacccacgc gtccactcac tctctcgga gtcgggtcct cctcgactca 60
gctcctccac aaacaaagcc accaccatcc caacccaaac acatcggccg accacgggcy 120
ccgccatgtc caccgctgac gggcgagcc cggccctggc gccggactgg gacgcgccg 180
cgggcgaagg cctggccctg gccagttcg ccgcgggctg cttctggagc gtggagctgg 240
tgtaccagcg cctcccaggc gtggcgcgca cggaggtggg gtactcgcag ggeacccgc 300
acgccccac ctaccgcgac gtctcgggca acggcacggg ccacgccgat gtggtccgcg 360
tgactacga ccccaacgcc tgcccctacg acgtctcct cgacgtcttc tgggccaagc 420
acaacccac cactctcagc agac 444

<210> 7906
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-010-Q1-E1-C2

<400> 7906

cgggccgacc cagcgtcca caaccggttt ttcaggaaca cattaagcag ggcagatgtt 60
ccggtgagct ctctgatga tgttctacag gcccgaagta attctgcgtc accgggcaaa 120
aagggttga aaggagtcag caagggcagt tccccaaca actcgtgtga cgttctgtgc 180
aatcagttcg gttacattaa aatctcagat tccaacaatg cgtgcagaa tctggtcgtg 240
gacaggcccg cttaagctgt acctgcacat ggtcatagaa cctccagcag cttactcatc 300
ttactttcta ccatactttt ttaaaaaact ttcacattat aaagaataca gtctatggta 360
taaaat 366

<210> 7907
<211> 430

<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-010-Q1-E1-C4

<400> 7907

ccgggccgac ccacgcgtcc atagcagcac tcaagatggt tgggtgggacc ctggcagagc 60
agacttattt gttccttggt gctggggaag ctggaactgg tattgcagaa cttattgctc 120
ttgagatttc gaaacagacg aatgctccaa ttgaagagtg ccgcaagaag gtttggctgg 180
tggactcaaa gggtttgatt gttgactctc gtaaaggctc tcttcagcca ttcaagaaac 240
cttgggcgca tgagcacgag cccttgaaaa ccttgatga tgctgttcag tccatcaaac 300
ctacagttct gatcgggaca tctggagttg gaagaacatt cacaaaagaa atcattgagg 360
ccatgtcttc cttcaacgag aggcctatca tcttttcact gtcaaacca acctcgcat 420
ctgaatgcac 430

<210> 7908
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-010-Q1-E1-C8

<400> 7908

cgggccgacc cacaagtccg ctcgccccga aggaacaggc agtaccctg cggtctaac 60
atcgacacgc gttttctgta gggctatctt gaaaatcatg cacggcagca actggcttat 120
atcaagcatt ctgcctcgc catgatactt acttgctctt agtcttttgt tgcacgagt 180
agacatggta aacggattta ttctaaggta tctgaaccac gtaagcgtct tcactacact 240
atcatctcca aactcacgc aagtaccctt cacgatgctg attgctatgc tacattcaat 300
gaccttaatg cggccgtgtt tgatgcaaca aggctcacgt tcctctatt gatcactgat 360
gttttcgtgt gtggttcaga atcatgataa gttggattaa tcagatgtgc agatcgatct 420
gttgtaatt cagatctcgt taatt 445

<210> 7909
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-010-Q1-E1-C9

<400> 7909

acccaagcgt ccaccacgc gtccgcggac gcatggggag agacgacaca gcagcttttt 60
tggtttcccc ttccctttcc cctgcgcagt gatcactggg ttctccgcga gcgaagcaga 120
acactgcacg tcctacgtga ccgcgcggtg atctctgggg gttccggacg ttgtggtttc 180
aataggtagg ctaggggatg ggaacaaccc tggcgagttc aatccgatac tgcaggagac 240
agtcattgaa gtatcgttcc cggacttggt agagatgcta gatttagtgc cttattgtct 300
gccgcatttg gtgcagcagg gcacgcgtga attccattga ccactgttct ttttgtttagc 360
ggttcacaat catgcgacga tgaattagtc a 391

<210> 7910

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-010-Q1-E1-D1

<400> 7910

gggccgaccc acgcgtccag cacaccaagg agagtacgtg gaggagcagc catggcttca 60
tcggtggccg ccgcggcgag cacattcctg ggcacccgcc tggcggaccc ggcgccacag 120
aacggggcgca tcgtggcccc gttcgggttc gggttgggag gcaaggcgaa gcctgctccg 180
aagaagggtg cgaagacatc gacctcctct gaccggccgc tgtgggtccc cggcgcctgtg 240
gcgccccgact acctggacgg ctgcgtggtc ggcgactacg ggttcgaccc gttcggtctc 300
gggaagcccc tggagtacct gcagttcgag ttggactcgc tggaccagaa cctggccaag 360
aatgaggccg gcggcatcat cggcaaccgg ttcgagtcct ccgaagtcaa gtccacccccg 420
ttgcagccct acagcgaggt gttcggc 447

<210> 7911

<211> 464

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-010-Q1-E1-D12

<400> 7911

ggtaacgggc aggaattccc gggccgaccc acgcgtcagg cgtcgtcacc aacctataca 60
 agcccaagga gccgtacgtc ggcaggtgcc tcctcaacac caagatcacc ggcgacgatg 120
 cgccggggga gacgtggcac atgggtcttca gcaccgaagg caagatcccg tacagagagg 180
 gccagtccat cggcgtcatc gccgatggcg tcgacaagaa cggcaagccg cacaaggcca 240
 ggctctactc catcgccagc agcgcgatcg ggcacttcgg cgactccaag acagtctcgc 300
 tgtgtgtcaa gaggtcatc tacaccaacg atgccggaga gatcgtcaaa ggagtctgct 360
 ccaacttctt atgtgatctt cagccagggtg ataacgtcca gataacagga ccagtcggca 420
 aagaaatgct gatgccc aaa gacccaacg ctaccattat aatg 464

<210> 7912
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-010-Q1-E1-D3

<400> 7912

cgggccgacc cagcgtcca cccacgcgtc cgcccacgcg tccgcccacg cgtccgcaat 60
 gatggattta ctcagggcc aactagtcta caggcaaccc ggcagacaca aaagtaccct 120
 atcttacagt cgaagtcgca tattaagcca tctgatcaat tgcaggcaag tttttcgcgt 180
 gaaaattctc catcattgtt cagaccttcc atcgaacttg gagaagtctc tttaccagct 240
 gactccaccc ccataagctc agatctgaca agtgctagta atttggtggc tagtctcgta 300
 aagagtgggt tcaaaccaaa taaccacagt gatgcacagg ctcttggtcc aagtggacca 360
 cttccagtgg cttctttatc atttcaaaat gctgctggtg aaaataccac tttgcaggca 420
 catacaccaa acatttctcg tccaa 445

<210> 7913
 <211> 387
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-010-Q1-E1-D6

<400> 7913

aattcccggg ccgaccacg cgtcagattt tcagcattca aaaacacacc aagcgaagcg 60

cactagcaac gacctaacac caatggctac caagatatta gccctccttg cgcttcttgc 120
 ccttttagtg agcgcaacaa atgcgttcat tattccacag tgctcacttg ctcttagtgc 180
 cagtattcca cagttcctcc caccagttac ttcaatgggc ttggaacatc cagccgtgca 240
 agcctacagg ctacaactag cgcttgccgc gagcgctta caacaaccaa ttgcccaatt 300
 gcaacaacaa tccttggcac atctaaccct acaaaccatt gcaacgcaac aacaacaaca 360
 acagtttctg ccatcactga gccacct 387

<210> 7914
 <211> 460
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-010-Q1-E1-D8

<400> 7914

ggtagcaggtc aggaattccc gggccgaccc acgacgtcag acctttcttc cctgggtacc 60
 gcccgcagtt ctacatgagg acaaccgatg tgacagggaa tgtgactgtg attatgaatg 120
 acaaagatga ggaggcgaag atgtgcatgc ctggtgaccg tatcaagatg gttgttcagc 180
 tcatccagcc tgttgcttgt gagcagggta tgaggtttgc tatccgtgag ggtggtaaga 240
 ctgttggtgc tgggtgtcatc aacaaaatca ttgagtaaac tggatatatc acatccacca 300
 cgagaatttt ccttggtttac tcaaagcgaa atgctctgta gttgttatta tgtgttgagt 360
 tttagggggtt gttcatgtga aattgtagta tgacactctt tcgccaagtg aatttgcata 420
 atttatgaca ttcacgacaa agatacactt atctgggtgc 460

<210> 7915
 <211> 431
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB189-010-Q1-E1-E10

<400> 7915

aattncccg cgcacccaca cgtccgcca cgcgtccgtg tcaatatgct cgtatggaga 60
 gaggcaagt tttgctacct tgtacagatt ccaccaatcc agtgcttttg atgattcaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa gaaaaaaaaa aaaaaaaata aaaacaaaga aaaaacacaa aaacaaatag 240
 taaagaaaaa aaaaaagggg gggcacctaa aaaggttaag cctaaattac ccttaaaagg 300
 aaaataaaaa cttttaaaaa ggggccacaa aattaaattc aagggccctt tttttaaaac 360
 ttctgaagg aaaaaacccg gggtttacc aatttaacc ccttaaaaaa aaacccttt 420
 ttccaaaagg g 431

<210> 7916
 <211> 438
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-010-Q1-E1-E11

<400> 7916
 aattcccggg cgcacccacg cgtccacca cgcgtccgca ttaccatagg ctcattcatc 60
 gaaacgcaaa tcagagagac aggaaaagaa aaaagaattt tgatcaaatac aatagaagga 120
 aggatccctt acctgatttg aatttcatcc tcctttaaat aggatatgct ctaagtcttc 180
 ccatactttc ctataatgac tgcaacgatt ttctccattt tgcaattcc tattttattt 240
 gaagtatatt actatcatat acattatcta aatcgatcca ctttaataaa aatagaaaaa 300
 atcgaaagaa aaaaaaaaaa gaaagagtaa ataataaac aggatattct gtttcataat 360
 tctgaaatag agttcttttt tttagtatta ctctcatta ggatgtatat attaattcatc 420
 ctattttaat atatatta 438

<210> 7917
 <211> 381
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-010-Q1-E1-E3

<400> 7917
 ccacgcgtcc aggaaaccga tcgacaccat gacgggtgtg ctcgttgccc tcgctctctt 60
 ggctctcgct gcgagcgcca cctccacgca tataaccggg ggctgcagct gccagccacc 120
 gccgccggtt catctaccgc tgccggtgca totgccacct ccggttcacc tgccacctcc 180

ggtgcatctc ccaccgccgg tctatctgcc gccgccggtc tacctgccac cgccgggtcca 240
 tgtgccgccg ccggttcacg tgccgccgct accatgccac taccctactc atccgccccg 300
 gcctcagcct catccccagc cacacccatt cccgtgccaa cagccgcacg caagccccatg 360
 cctgctgcag ggaacctgcg g 381

<210> 7918
 <211> 414
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB189-010-Q1-E1-E5

 <400> 7918

cccgggccga cccacgacgt cagggagtgt cgactctagt gatgctgaaa accctgggaa 60
 caacctgtat gtgactggtt tgtcggctcg tgtaacggat cgagatctgg agaagcactt 120
 ctccactgag ggtgaggtga ttgatgcaag cgttgtgtat gatccttgga caagggaatc 180
 acggggggtt ggttttgtta ccatggctgc tgttaaagat gcagatcgct gcatcaaata 240
 tctggaccgt tctgtgttgc aaggtcgggt cataactgtt gagaagattt tgttgacagc 300
 aacagggtag atgttggtag ctgctctgca tcaaactgat acaacctaac accaaaccat 360
 gccaacctca gccaaatggc acagacaaga cgaggtanaa cccaacacc tggg 414

<210> 7919
 <211> 449
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-010-Q1-E1-E7

 <400> 7919

aattccccgg ccgaccacg cgtccacgga cgcgtgggcg gacgcgtggg cggacgcgtg 60
 ggtgcaagtt atcatttctt tgcacggaat gctcttattt taaccatgta tccaaattca 120
 gtatttcatt gcgacaaggg ttagcccat ttttcaaccg ccaacttttg tggtagtttg 180
 aagttcagcc ttgaactatg aaatcgagta ccaaacgctc tccaactttc aaaactagac 240
 aaatttgccc atcttctctg ttccgaaggt gggttttctt atttctaaaa ataataaaaa 300
 tctgctttaa tctctataaa ttcacaggta attgatttca aatcagaaaa atatgaagta 360

gtatcatttt ttctgaaaaa gttatctttg aggttgaaaa tgtactttac cctaattaag 420
catgacgctc tcaactgttg attgccaat 449

<210> 7920
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-010-Q1-E1-E8

<400> 7920

aattcccggg ctgacccacg acgtcagctc ttgcgattcg ctgctcgat cctagcttct 60
cttccaagat ggcgacgccc catggccatg gccacgcaag cctccgccc cagcgccac 120
ctgctggccg ccgctctggc gccggcggca attccgccc agctgagctc gcagctcgcg 180
ctgccgtcgt cgtcctcccg cgggcccggc ccgctccgcg cgtccacctt tgaggcggcg 240
gcggctctta aggggttcgt ggtcccgcag gtggactcca tcacgtgtc cccgatcttc 300
ggctgcagca cgggcccggc gctctcccag gtgcatgtgt tggagttcta cgtcatcac 359

<210> 7921
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-010-Q1-E1-E9

<400> 7921

ttcccgggccc gacccacagc gtccgtcca acctggcggg cagccgcaac ccgagcctgg 60
actacgggtt caagggcacc gagatcgcca tggcgtccta ctgctccgag ctccagtacc 120
tggccaaccc catcaccaac caggtccaga gcgcggagca gcacaaccag gacgtgaact 180
ccctcggcct cgtctccgcc aggaagaccg ccgaggcggg ggacatcctc aagctcatgt 240
cgtccacgta catggtcgcg ctgtgccagg ccgtggacct gcgccacctc gaggagaacc 300
tcaagagcgc cgtcaagagc tgcgtgatgg cgggtggccag gaaggtgctg accaccagcc 360
tcggcggcga cctccacagc gcgcgcttca gcgagaaggt cctgctcacc gccatcgacc 420
gcg 423

<210> 7922
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-010-Q1-E1-F1

<400> 7922

gggccgaccc acgcgtccaa aaaatatccc caaacccctag ctcccgatct cgatggcgaa 60
 ccctcgcgtc ttcttcaaaa tgaccgtcgg gggcgccccg gcggggccgga tcgtgatgga 120
 gctgtacgcc aacgaggtgc ccaagaccgc ggagaacttc cgcgcgctgt gcacggggca 180
 gaagggcgtg ggcaagtccg ggaagccgct ccactacaag ggctccacct tccaccgct 240
 catccccgag ttcatgtgcc agggcgggca cttcaccgc ggcaacggca ccggcgggca 300
 gtccatctac ggcgagaagt tccccgacga gaagttcgtg cgcaagcaca ccgccccgg 360
 tttgtctcc atggccaacg ccggggccaa caccaacggc tccagttct tcatctgcac 420
 cgtcgcg 427

<210> 7923
 <211> 448
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-010-Q1-E1-F11

<400> 7923

ggtcaggaat tccggggccg acccagcgt cagaacgcgg cgttccgcaa ggccgcccgc 60
 ggcccgtgc agggcatcct ggatgtctgc gacgtgccgc tcgtgtccgt cgacttcagg 120
 tgctccgacg tgtcctgcac catcgacgcg tcgctcagca tggatcatggg cgacgacatg 180
 gtcaaggctg tcgcctggta cgacaacgag tgggggtaca gccaacgcgt ggttgatctg 240
 gcgcacctgg tggcgcccaa gtggcccggc gccgcggcgg ccggcagcgg cgaccctctg 300
 gaggacttct gcaaggacaa ccccgagacc gacgagtga aggtgtacga agcatgaggc 360
 cagggttctt tccacgacga aacgtacagc acgggcgcga gggttctttc catagagaat 420
 tatatacaga ttattcgccc aaagagac 448

<210> 7924
 <211> 438

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-010-Q1-E1-F4
 <400> 7924
 gggccgaccc acgcgtccac tctatcttta cctatggcgg tgagacgttt cgtggaacag 60
 gacaacacca agaaaccaat cttattagac gacctgacgg aactcacatc acaaaacttt 120
 gatttggtta gatcaaagt cgactcgggtg atcgatagag gtgcttgaaa tgggtgcgggc 180
 cttgcaaagt gatggctccg aaattccagg agatgtctga gaagaacctg gatgttgtgt 240
 tcttgaagct cgactgcaac caggacaaca agccgcttgc gaaggagctg ggcataaagg 300
 ttgtgccaac gttcaagatc ctcaaggggtg ggaaggtcgt gaaggaggtg accggcgcca 360
 agatcgacga gctagcgcaa gccatcgaca cagtcaagtc agactgacaa agaaagcaag 420
 tgatgcaact agctagtg 438

<210> 7925
 <211> 96
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-010-Q1-E1-F5
 <400> 7925
 aattccccggg ccgacccacg cgtccacgga cgcggtgggcg tgtataaatg taattcctct 60
 gctttgcaca tggatggatt gggatgtaac ctgttc 96

<210> 7926
 <211> 458
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-010-Q1-E1-F6
 <400> 7926
 aagtccccggg tcgaccaca cgtcaaagaa tatattgagg cctgtgcttc caatgctgac 60
 tttgataagt gtctatcagt ggatgggtgat agccaaggct tagagcgact ccttgagct 120
 ctttctgcac atatgtggcc tggaatgatt ctgaaatctg gaaacagaat aactgtccca 180
 tccttggttg aaaaacaaga atccacagat gatgaatcca actatgattt tgagtacgag 240

gtcttgctc atggatccga tgaccagtgg gaatttattg gagagacaag tacatccaga 300
agatttgaga gaccaaata gcctgatggg gcacaggatc acacacatca agttgtgaat 360
gccggtactg actcttcagc atccaactct ccccgacta acacacccac agaaactgct 420
gaagagaata ctgtaactca gagcaacaaa accgacaa 458

<210> 7927
<211> 163
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-010-Q1-E1-F7
<400> 7927

aattccccggg ccgacccacg acgtcaaaaa aaaatagaag actgtaacat caaatgtgta 60
ctttgaaaaa aaaaaaaggg gggggcggcc aaaggggtca agcttaagta ccccttcaag 120
ccacgtcaaa acccctccaa aatggcacct aaattcaatt caa 163

<210> 7928
<211> 439
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-010-Q1-E1-F8
<400> 7928

aattccccggg ccgacccacg cgtcagccgg ggcttgatc ttgggaaggg gaggtgtggt 60
gggccgcccgc cggcgatctg gcggggagga tatggccggc gggaaggagc cgatcgaggt 120
caggttccgg ctcttcgacg gcacggacat cggggccacc aagtacgat cctccaccac 180
ggtctcctcg ctcaaggagt tcctcctcgc tcggtggccg caagataagg atataactcc 240
aaaaactgtt aatgacttga agcttatcaa tgctggaagg atattggaga ataatcggac 300
acttgagag tcccggttc cagtaggaga ggtcccagga ggtgtaatta caatgcaggt 360
ggtagtgcga cctccacaag ctgacaaaaa cagtgagaag cagcttgca attccgtcaa 420
gcagaacaga tgcgggtgc 439

<210> 7929
<211> 386

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-010-Q1-E1-F9
 <400> 7929
 attccccgggc cgaccacgc gtccaccac ggcgccgta caaatcatga attgtccaca 60
 atagaataac caattgtgac catagcaaaa atcttctgtt tctgaataaa aatagcaaaa 120
 tcgggtgctgt gttcgtaaaa gcaagggcaa gggtagaaa agaaatatga aaatatactg 180
 gtgggtgggt ctgtttgaga ctaaatcgta gacaatggtc tatttcagac ttaattaaaa 240
 gtttaatggc acttttgcaa ccttaagaag tttagtggca tatatcaaaa catagaaaat 300
 tataatggca cagacacaat taacctaatc ataaaacagc atgtcatctc tcaaatcacc 360
 aggagaaagg gataaaggga acctgc 386

<210> 7930
 <211> 456
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-010-Q1-E1-G11
 <400> 7930
 ggtaaaggctc aggaattccc gggccgaccc acgcgtcagg gcagacaaga agaagatcaa 60
 ggctgccgtc aagaagatgt atgacatcca ggcaaagaag gtcaaacact tgatcaggcc 120
 tgatgggaag aagaaggctt acgtgaagct gactcccgac tatgatgctc ttgatgtggc 180
 caacaaaatc ggcacatctt aagtgtgca ttaggcatcc tagttcatct gttgtgtcct 240
 agttctatgt gaaaccagag tttttagct atggctctca atcgttccat taccatgtgt 300
 tatgcacact tctgaatttg atatcatcca agtgaccttt tgaactagtt tgcgttctgc 360
 acttcattac acttgacac cgtcagctct tgtgaccagt aattttgttt gtcgtaatgg 420
 gttggttttg caactcgacc aaatagctgt tttgag 456

<210> 7931
 <211> 426
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-010-Q1-E1-G12

<400> 7931

tcccgggccc acccacgcgt caggggagga tgacaatcat gtttacatga ctggtcctgc 60
agaggccgtc ttttatggat ctgttggtca ctatgtactg gggagtgggg accaagatag 120
aagggttgcc tgccactcaa agcttgtgag attgggtaca atatccatga aactgaatgt 180
tctggtgccg gtacactcgt ttagatattt taaattatgg ttgcttgatt tgggtagcag 240
tagaggcttc cttttgaagc attctagtgt tgtccacctt ttgtactcct ttactctgtc 300
aggtttgaac tacattgtta gcatgtcttt ccaaccattt tctgtttctt ttctttgcaa 360
gttaacgtca atgcagcttc agtattgttt tctaaaaaaa aggttggttt tgcaactcga 420
ccaaat 426

<210> 7932

<211> 240

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-010-Q1-E1-G4

<400> 7932

ccaaaagggtt caaacctaac ttacccttga atgcaaattc aaaccccttc aaaagtgtca 60
ccaaaattaa tttcatgggc cgtcttttaa caacgtcgta acgggaaaaa ccctggggtt 120
accaaattta acccccttga aaaaaatccc cctttcacia actgggttaa taccaaaaag 180
gccccaacgg atcccccttc caaaaaattg cccaccctaa atggtaaattg gaaccccccc 240

<210> 7933

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-010-Q1-E1-G5

<400> 7933

accacgacg tcaacgcaga ggcacaagat cgaggccggc gtggcaacgg cggcggcgct 60
ggcgccggc ggctacgcgt accacgagca ccgcgagcag aaggacgcc actacgatag 120
caagcaacaa gagcaaaagg ttgccacgg gcaatggcaa gggcaacgg actcctaata 180
atggcactga aaccactggt tatcccatcc attcaaata gcattccaaa ccccataaat 240

ataccggccc taaccccggt cacgttcggt cctttaagtt aataagagca aacgtcctca 300
 cctgtgtggt gtcctattac aaatccaacc atttacctat taacgtctgc aaataacgac 360
 taagcgcaag cttctgcaac gtg 383

<210> 7934
 <211> 437
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-010-Q1-E1-G6
 <400> 7934

cccggggcca cccacacgtc caccacgcg tccgcccacg cgtccgcgat ctctttgatc 60
 gctgagcca tgcattccat ggtccagttc ttgatctttg tgtgtctgtg cgtgtgcac 120
 gacgtgtggc tgcagcacga gaagcacaag gccagaagg acccagagaa cgagcacggg 180
 caccgggtca aggaggaggt ggccgccgtc gccgccgtgg gtcgcccggt cttcgctttt 240
 caagaacaac aacaaaaaaaa aggaccccaa gaaccacgcc aacaactgat ccgtcccggg 300
 tgcggttcaa ccggtccttc aagcctcgtc ttcgtcaacg gtgtgccggc aaggccttga 360
 tttgggctac cgatatttgc atggacgtag gaactgtgtt ggtcgggtcct cggcggttctt 420
 gtatcaagat caaatca 437

<210> 7935
 <211> 468
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-010-Q1-E1-G7
 <400> 7935

gtactagtca ggaattcccg ggccgaccca cgcgtccacc cagcgtccg cccacgcgtc 60
 cgcccacgcg tccgcccacg cgtccgacga cacaaacaca atcatggccg acattgactc 120
 acgaccgcgc aaatcggtcg cattcgccga gggcgagacc attgtcgact ccaacggcga 180
 ggtcaccag gccgtctcgg agaccgaaaa ggacaccacc gccgaatcac actcaaagcc 240
 tgacgccgcc gtcgacgagg ccaccgacga ctttgaggct ctgcgctca gtcgaagaa 300
 aaagaagaag tcgaagactg aggatggcga ggtcgacctg agtgcgctca agaagaagaa 360

gaaaaagccc aaggcgccgc tcgtcgacga cttcgaggcc aagcttgccg ctgcatgtgg 420
cgacgaggag aatgtgctgg ccgacgatgc ggctgagaag cagtccgc 468

<210> 7936
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-010-Q1-E1-G8

<400> 7936

ccgggcccac ccacacgtcc gcccacgct cctgaagaa aatgttaa atgcgccag 60
agtatttgca gaatgtgtt gagctatgcc aaaacagagt gttgtcttc gataacgtga 120
ctgaagaccg aaggctccaa ggcagcaac ttgacaaatt gctcgatgta gtggattcag 180
tttgtgcaaa aaatggagga aaaccatttt cagatcaa atgtcactagc atcaaggagg 240
tgcatgatag agaaaaagag gtgcatacct cgggatattc agatgagcag atatctgaat 300
tgaaaaagga gattcataga actagggatg aacagcttgc gcacaataac aacatggctg 360
aggaaaagtt aaactgcact gtggagaagt tgcaacagca gctcatggaa gaacaga 417

<210> 7937
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-010-Q1-E1-H1

<400> 7937

acgcgtccag gctaggcaga acaccaagga ctgcgagcac ctagcccgcc gcgtcggcat 60
gctcgcggag ctggtcccc acctgcagga cccggaggcc aggcgggagg tggccgggct 120
caaagatgag ctctggagg ctcaccagct catcacatcc tgccagagga gggggctcac 180
gtcccagctg ttctcggcgt ccaggcaggc cgacaggttc agggacgtcg agcgcaagat 240
cgaaacctgc gtgtccatca tccctgtcat cggctacatc ggcataacaa gacgcctcga 300
tggttcgcaa tccagtcctc agctgtcggc gggaggggct gaggatcggg agttcacgct 360
ggcggagatc gccgtggcca ccaacaactt cgccgtcgtg ctgagcaacg acgccgacac 420
tggcac 426

<210> 7938
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-010-Q1-E1-H10

<400> 7938

gaccacgcg tccacccacg cgtccgctga catctcgtec cgtcctttcg tttcgaagcc 60
tcgcgagccc cgacgatggc caccgccgcg gtgtcggtcg acgagaagct cgacaagctt 120
cgcgccgagg tcgccaagct cgaccagatc agcgagaacg agaagtccgg gttcatcagc 180
ctcgtgtcac gctacctcag tggggaagcg gagcagatcg agtggagcaa gatccagacc 240
cctacggatg aggtggtggt gccctacgat accgtcgcgt cgctcccga agatctcgag 300
gagacgaaga agctgctgga taagctcggt gtgctcaagc ttaacggagg gctcgggacg 360
accatgggct gcactgggcc caagtctgtc attgaagtcc gcaatggggt cacattcctt 420
gaccttattg tgat 434

<210> 7939
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-010-Q1-E1-H9

<400> 7939

attcccgggc tgaccacgc gtcaacggac gcgtgggatc cacacaagca cttcgacgtc 60
acacggggcg tcgcacaga cacaccaagc gtcggcacca atggcttact accaggaggt 120
ggactactgc tcggaggagg tgaggtcggt ggccccggcc ggcttcggcc gccacggcgg 180
cggcgctcag cagcacgtcg tcaaggagaa gttcgaggag gtcgacacgg tctcacgcgc 240
cggcgccaac caccaccacc accatggtca ccacggcggc cacggcttcg tggcgcgca 300
gaccagggtc gaagaggaca tcaacacctg caccggcgag gtccacgagc gcagggagag 360
cttcctcgcc agggctaact gagccgcccg gcggccggca tccacgcccg ttcgtgcttg 420
cctgcgtgcc ttatgtat 438

<210> 7940
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB189-011-Q1-E1-A10

<400> 7940

 accggtccga gattcncgga tccacccacg cgtccggaga ttttcatcan gggaaattcg 60
 catggtatgg gagactacgg cccgtatacc tttgaaccct cgtaggaagt cttgagaacc 120
 cttgcatgca ttcgctgttg tatgctgcc atgctgttga atttagctgt actacaccag 180
 atagtatac ccgaactcac ggagtttaaat ggaaccggat agaaagctgc ccatgtagtt 240
 tgggtgttgt tgcttacgtt gtggatttta ctgtagtgac ttgtctaatag ctccgtttct 300

ccgtttggtt atcgaccata ttggagggca tggaattaaa ataagttcaa taccaaatca 360
 aatatagtat tgaaatgaga tgtaatttca attctattgt ttggatgtcg ctgatttga 420
 att 423

<210> 7941
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-011-Q1-E1-A12

<400> 7941

 cccacgcctc cggaagtta aaagcaagag acagctaacc cagtacctga aagctcatcc 60
 tggaggccct gcatcctcag agttcgattg gggaaccagt gatactccca gacgctcagc 120
 acgcttgagc gagaagggtca aggcaactga gagccagag ggtgagaaga cccctaaacg 180
 gggaagatca agttctaaga gaggcaaaaa ggaggaaaaa gaagacacag aggctgcaaa 240
 tgaggctgga gaagatggtg ctccggagga aggtaaaggt acagatgtgg agatgaaaga 300
 tgctgaaaac gctgaagacg agaagaaaga ggtcccaaata gcagatgctg cagagaagac 360
 tgaggaaggt gaagataaga aagaggaggc ccctgctgta gatgcagcag agaagactga 420
 ggaaggttaa gat 433

<210> 7942

<211> 235
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-011-Q1-E1-A2

<400> 7942

ccggccggtc ctaattaccg ggtcgagcca cgcgtccgat taacatcaaa ctgctgctcc 60
acgcctcttc ggcaagggtg cgtacggcgt ggccctaagg ttcattctgc cgcctccctc 120
aaactcttga ttccgcctcc ctcaacctct tgattccgcc tccctgaagg cataccagcg 180
ggatcaagct attttgctgg ccaaccgaac ggtcaagccg acgatgacgc tcgga 235

<210> 7943

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-011-Q1-E1-A3

<400> 7943

acgcgtacaa gagtgggcaa ccctgggaaa aatgaacatc agaataatttt tcaatcatat 60
ccaattgact tggggcagaa ataaccgaac tagagtctac agtgagggtga gacctgttcg 120
cctcttgagt gactgaaaca aataagagat tgtagagct cggacaatac cattgagtgt 180
acaggtttgt tcaggaccca ctggctataa gctactctat tcgttcacaa agactgtatt 240
gtagagggtac atgatagaat ttattcttat atgctataaa agaaaatgtc ttggctacga 300
tgctggtcga ttgcaaagt atcttctctg atcgacttcc atatcaaacg agacaaaccc 360
gagggggcgt cc 372

<210> 7944

<211> 75

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-011-Q1-E1-B12

<400> 7944

ccccaaaagg atcaaacta acttacctt gaatgcaact tcaaaccct tcaaaattgt 60
caccaaaatt aaatt 75

<210> 7945
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-011-Q1-E1-B2

<400> 7945

ttttggcttt aaaacggtag actaaattcc gaaattacca accagacctc gaatgtgcag 60
atcaattcta cctgtcctga aaacctatct ggatgcaagg ccacacagaa ttttacagac 120
aaactgtgaa cagctggacc aaagggcaca cattttttctc actgttttaa tgacatatgc 180
acaaatagtg aactccgaga gttcactaac ggccgcaggt cactaaaatt tgcttccatt 240
aacgaaaggt ttgaacaaag aacagcggaa ctggctatat gggcacaatg ctatggtagt 300
acagctatca gcagcaacgg cagcaaatga 330

<210> 7946
<211> 303
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-011-Q1-E1-B6

<400> 7946

aaacattgac ccaagtactt agaacactga cgacaccggt acatcacagg cacacatcgc 60
ctgcttgtcc ttattacagg cagcagcatc acgttgctac tatcacaacc agtcctgatg 120
caccgcatgc ctgatacgac tgtattatag tagaaccagt attaaacggg tattagcaca 180
gccacacact gctatcaagc accactacta gtagtataat attgtagtga tacaagcagg 240
gagcccagcc cagccgagca cgagcagggt gcctgccact gccaggctct cccgccgccc 300
ttt 303

<210> 7947
<211> 426
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-011-Q1-E1-C10

<400> 7947

cccacgcctc cgacaatgcg catgacggat ttaactttta canatcagtc ctcagtgaga 60
 tggatttaac tttacttcta tttcatgtta tgcagtcttt ggaactttgg gacataaggg 120
 agaagaacac catgaccttc aacaatgcgc atgacggttt gggtgcagcc ctggcatcat 180
 ccagtgttac agggaagggt gcctcagtaa gccatgatag aactctcaag ctctggaaat 240
 gactttataa tagcgatcgg cgtgaaaacg attttctacc aaaaatgacc acatgacgca 300
 catgacgaaa aggtagctga caagatactc tggagccgcg tgggctcaag aactaacggt 360
 ggtttgtgtt gtggttcttg tatgctgttc aatatgctat tgaagtttgt aactccta 420
 agaaac 426

<210> 7948
 <211> 150
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-011-Q1-E1-C12

<400> 7948

ggaggtagct gcggtaaacc taaaaacatt cataaggctc aaaatggtaa aatttcgtcg 60
 gcaaataa atacaaatgc taaacctgc tgagacaaaa ataaaaaaaa aaaaaaaaaa 120
 aaaaaacaaa aaaaaaaaaa aaatttaaga 150

<210> 7949
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-011-Q1-E1-C3

<400> 7949

gggtcgagcc acgcgtccgc ccacacttcg gcgtaaatta aaagtatccc ataatgaaca 60
 gataccacca acatagttaa agtttttacc gggattaaag cggccatttt tcaaaacggg 120
 gtcgggtgct gaaaaaactc aaattgtttt ggggtccac gtcggtgac gtcagtttgg 180
 tctgggcaag cgcaggacga taccgatccg gccggtcagg gcgcacgcgg gggcgatccg 240
 atccagcgag tctaagggtta tccgcaaccg ttatttctaa atttttctcc ctatatcact 300
 ttttcccct attttcccc tatttttcat ctctgcgagc ggttcccct aaatactccc 360

cttatacccc actaccacta taaaatatca ttttctaata caactatcaa tttttttt 418

<210> 7950
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-011-Q1-E1-C8

<400> 7950

tccgggtcga cccacgcac caccgactct tccgcccacg cgtcctcgga cgcgtgggag 60
caaccaaacg cgcacgatat gagtccaaat cgacgaactc gatatgtcac caatactggt 120
cagcatgaag tcgagcgtcc tcagggtcaa gactccgca gaagttccgc atgccaccgc 180

ctcctcatgg acggagaatc gtgtgcatct gggaggtcgt gaaggttgcc cctccgctct 240
gctcagcatg ccggccgtct tcgacttcac ggcca 275

<210> 7951
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-011-Q1-E1-D1

<400> 7951

gggtcgagcc acgcgtccga ggacacgtgg gctatagcaa ccggtccagc actttcacgc 60
tcagctccag caatggctgc ctccaccatg gcgatctcct ccacggcgat ggccggcacc 120
cccatcaagg tgggtcctt cggcgaaggc cgcacacca tgcgcaagac cgtgggcaag 180
cccaaggtgg cggcgtccgg cagcccctgg tacggcccg accggtcaa gtacctcggc 240
cccttctccg gcgagcccc gagctacctc accggcgagt tccccggcga ctacggctgg 300
gacaccgccc ggctgtccgc cgaccccgag acctcgcca agaaccgga gctggaggtg 360
atccactccc gctgggcat gctcggcgcg ctcgggtgcc tcttccc 407

<210> 7952
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-011-Q1-E1-D10

<400> 7952

cccacgcgtc cgatctcggc agccacaaga aaccaccccc ttccggcaca cgggctcgac 60
cacctgactc catcaccgtg cctgtctgtg ttctagggac aagaagagca gagatataca 120
ggagcgagca gaggcgggga gaagaggatg agcaccacaa cggcgtcgtc gctgaacccc 180
aacgcgccgc tcttcatccc ggcgggctac cggcaggtgg aggacttctc gcccgagtgg 240
tgaggagctc tcaacaccac cgcctgggtc cgggaccact gcttccggca gcgccagctc 300
cacgaggccg cctgcgacga cgtcgccgcg ctctccccg acgacctcct cgacaccaac 360
gacctcttct acgcgcccga cgtcgtccac caccaaccag cgacggcgct gctgcccggg 420
tacgatgtcc t 431

<210> 7953

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-011-Q1-E1-D3

<400> 7953

gggtcgagcc acgcgtccga ccacacgttc ggcgacgcg tgggccggac gcctggaaaa 60
taaggaaaat ttttgaaaag gtttgaaata tatcttcac agttgacacc aaatgccatt 120
gtcaggctga gtgtctacat atgggctctc cgaagctagg gcaaagatgc taatgccccaa 180
ggtttctgtt gagtgcata attgcactac cagacgaagg ctagagctga tggccttcac 240
aagaactttg gatgttataa ttttgcatc cgaaaggaca ccagggttc ggtgatcggc 300
taccgcacta agtggccgac cgggtggaca aacgaatggt tctacgtgaa agccgatgag 360
aagaagaggg aaaaactcat cactatgggt atgagtcctc tg 402

<210> 7954

<211> 74

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-011-Q1-E1-D7

<400> 7954

agcggacgcg tgggtttttt tttttttttt tttttttttt tttttttttt tttttttttt 60

ttttttttta ctat

<210> 7955
 <211> 218
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-011-Q1-E1-E12

<400> 7955

acggtcgtaa attcccgat cgaccaacgc ttcggacaag ccttcggcca aggcttcggc 60
 caagccttcg gccaaagcgt ccgcaaggat aaaattctca cagatggggt attgattaga 120
 gagatgatgg aagattctct tcttaacaag tatagtgtaa ttatgggtgga tgaagctcaa 180
 gaaaggtcca tctcaaccga catgttgctg ggtcccct 218

<210> 7956
 <211> 391
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB189-011-Q1-E1-E7

<400> 7956

caagaatact gagattgcaa agcacttgct ccttcacca gtaaagctcc attgcagcat 60
 gcttgcgagg gatgccatta aagctgctgt gaaagactac gaagccaaga aggcgaagat 120
 ggggcaaaag agtgaagaca gtccatcaga gaaagctgct gaagcatgaa agtttctgcc 180
 ttttttaagt gtaattgagc tgatatgttt ctacgtccat gactccccgc tgcttcagat 240
 aaatgcttct gattgagagg cgaggcgagg gaccgcgtgt aatgttcaca aattctggta 300
 gtgcggcatg tgccttaact cttttgagga tgggtgacaac caatttcaaa taaatttggt 360
 gccatcttag aattaanaaa naannannna a 391

<210> 7957
 <211> 397
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-011-Q1-E1-F3

<400> 7957

cggggtcgag ccacgcgtcc ggttttcttg ggcaatgatg ttaagttccg gaatgttttc 60
ccttccccctt tttcctaata cgtgggtccaa gtgtaaaatg ccaaaaggaa tccttaacca 120
agccccgggc ggttctgttc tgggggccaa aaaacaaccg aatggggaaa aaccggaaat 180
aagagcgtgc cgctgtgtgt ttcctttgaa ggaatgaaaa tgggtgttcgt gttgtgcatt 240
gcttattaaa aaaaaaaaaa aaaataaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aaaaaaaaa aaaaaataaa aattaataaa aattaataaa aaattaaaat aatataaaaa 360
taatttaaaa aaattaaaaa aaaaaaaggg gggcccc 397

<210> 7958

<211> 225

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-011-Q1-E1-G1

<400> 7958

gtgtattatt ttttttttga aaattaaagt gatttggcat ttttttaaag tcgaagaacc 60
ggcgaatgct gtaaccacgc agcctgaatc cctgtcaatt tgtacacacg cccaacattt 120
ggagatcatg tttcccctgg aattgccgtc acaccctatc caagtcaaac gtaaagacag 180
accatccact gaactcccgg aaacaagggg cccacatcaa catgt 225

<210> 7959

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-011-Q1-E1-G3

<400> 7959

gggtcgagcc acgcgtccgc caaaccttcg cccaagcctc cgatttggaa agattcctaa 60
gacaacttca cggacattaa aggaattcca aactggtaat ccggaagatg atgctcctaa 120
agggatatca accatcaaca tcaagcttgt atatgacgat taacctgaaa aggtcaaggg 180
aaaagagcaa aagggcgcta agaagcgcca acgcttgggt gaaaattttt caaatctttt 240
ggattccatc aaggaaatat cagcttcttc aacatgggat gattctaaac agcttttcga 300

ggatagccaa gagttcaggg ccttggacaa tgagacttat gctagagagc tttttgaaga 360
gtgcggtgtc cacctgaaag aaaggttaaa agagaaagaa c 401

<210> 7960
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-011-Q1-E1-G6

<400> 7960

aaagcaatta gtagcactta gcagcactgc tcgtttttct aacctaccga tacctacacc 60
cgatcatggc ggtggatcag cgctagctca gtcctcgaat ccggtcttct tccagacggc 120
gtccccgacc cggctgaggt cgcgccctt gagcgtcctg ccgatccctt cgtgcaccga 180

cagcgacgcc gcccggtgc gccacgccag ctctgctggc ggcaccatct ccgccccgcc 240
gcgcgccctg ccgtagctgc tgccgtctgc gtcgtctgc tcgtccgcgc caggctccca 300
ctcgcccgcg cggtggtggt cccggtactc caccctg 337

<210> 7961
<211> 466
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-011-Q1-E1-G8

<400> 7961

aattccccgg ccgacccacg cgtccacaaa ccatctcgac tcgtggggaa gattcgtctt 60
cgccggcgctc gacggcctag ggttcgagga acgtccgtcc gtccgtccgg tgaaggagcg 120
gtagggaggc ggagatgatc gaggtggtgc tcaacgaccg cctgggggaag aaggtgcggg 180
tcaagtgcaa cgaggacgac accatcggcg acctcaagaa gctggtggcg gcgcagacgg 240
ggacgcgccc cgagaagatc cgcattcaga agtggtaaaa catctacaag gaccacatca 300
ccctcaagga ctacgaggtc cagcagggca tgggcctcga gctctactac aactgagccg 360
ccgccccctt ctccctctcg tcaggttggt ctgaattctg aagtcattgg tgcaattcgc 420
ttcgcggtga tctcttaagc tcatcacata tataaaagca acctca 466

<210> 7962

<211> 464
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-011-Q1-E1-G9

<400> 7962

ggagccaccc acgcgtccga ttctcctcca tctcttctt ttccctttcc tttttctcat 60
tgcgacgcct gcctgggcga ccgtcgccgc tctacacaag gtgccaggt cttcgccggc 120
gccgagcagc caccagccgc tgtgcaacaa atcacgtctg tcgagggcat ggatccctac 180
atgacaaggc tcggcgccgg agccactcac cagctttcca gggctgaagc aatgcctgac 240
cgaaggtcta ggttttggca gacagatgtg cagcttgccg ctcggataga catcatctgc 300
cctctgcctc gccgcccttc tcgcctaccg gttctcaata gcccgaagct caatggggca 360
ctcccactgt atagagcaga cccactttt gatatcggtg acctcatcct tagcaagaat 420
gacctgatg tggatactga ttcaagcaac caagcgggct tttt 464

<210> 7963
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-011-Q1-E1-H1

<400> 7963

ggtcgagcca cgcgctccgat aaaagtcaat taggaaggct ggtcctagca ctaaattggc 60
aacaaaagaa aacgaattta tcgaggcaga tctctgcga ccttgatggc tcattgcaat 120
tatgagtaca tatatattgc ctttatctta tgcttagtag aacaaactga gcatatcata 180
tatcatctat tttgtttttt tctcttaaca tacctctggc cacattccat acttttactc 240
cttatatatt gcatagttat atgtaatata taaatatgca atatataact ttattaattc 300
ctacctatgc ttatcaacag gttgcctgt gaactttgag ttccaaaact acacaatcat 360
cacaagcaag tgcaaaggac cgaagtttcc agccagccaa tgctgtgccg cactcaag 418

<210> 7964
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-011-Q1-E1-H5

<400> 7964

cggacgcgtg gggaatcatc aggttaagat cgatctaaac caatccagtt tatatataca 60
tacgacatgc caacgggttaa acaacttatt aaaaatgcaa gacagccaat acgaaatgct 120
acaaaatcgg ccgcgcttaa gggatgtcct cagcgtcgag gaacatgtgc taggggtgtat 180
actatcaacc ccaagaaacc caactctgcc ttacgtaaag ttgccagagt acgattaacc 240
tctggatttg aaatcactgc ttatatacct ggtattggcc ataatttaca agaacattct 300
gtagtattag taagaggagg aagggttaag gatttaccgc gtgtgagata tcgcattatt 360
cgaagacacc tagatgctgt cgcagtaaag aatcgtcaac aagggcgctc taaatatggg 420
gccaaaaagc caa 433

<210> 7965

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-011-Q1-E1-H9

<400> 7965

accacgcct ccgcaagcac tccacactgc tgtgcagaac gagagccaca ccatcagtag 60
ttagagcgac caatagatga gttcctcccc gtcctttggt ctcttggtg tagcagcatt 120
actcctagca ctgagcttag cacaacatgg ctccctcgcc gcaaccgtcg gccccagggt 180
catcgtcgtc ggcgccgga tgtctgggat ctcgcgcgcg aagaggctgt cggaggccgg 240
gataaccgac ctgctgattc tggaagcgac ggaccacatc ggcgggcgga tgcacaagac 300
gaacttcgcc ggcacaaacg tcgagttagg cgccaactgg gtggaggggcg tgaacggcg 360
caagatgaac cccatctggc ccatcgtcaa ctccaccctc aagctccgca acttcgct 419

<210> 7966

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-012-Q1-E1-A1

<400> 7966

acgggtccgta cattccgggg tcacccacgc gtccggagga atcgcaaaga gggccgtctc 60
atccgagtta aggaagccat ggagcacaag gaggtctgggt gccaggcccc cgagggaacc 120
atcctctgca tcaataactg tggtctcttc ggcagcgcg cgaccatgaa catgtgctcc 180
aagtgccaca aggagatgat aacgaagcag gatcaggcca agctggctgc ctctctatc 240
gacagcatcg tgaacggcag cgacgccgtc atggagccgg ttgttgctgg ca 292

<210> 7967
<211> 376
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-012-Q1-E1-A2
<400> 7967

cccacgcgcc cggagccact gtcaagtgcg cgcgtcaagc ttgcttagct agccgccatg 60
gcctccctcg ccgccgtctc cgtgaagccc gtggccatca aggtctctgc cggcagctcc 120
atctccggaa ggaagctcgc cgtcgccagg ccgtcggccc gctccatccg caggccccgc 180
gcagccgccg tgggtggcaa gtacggcgac aagagcgtct actttgacct cgacgacatc 240
ggcaacacca ccggacagtg ggacctctac ggctctgacg cggccgcgcc ctacaaccgc 300
gctacagagc aagttcttcg agacgttcgc ggctccgttt cacaagagag gtctgctgct 360
caagttcctg ctgctg 376

<210> 7968
<211> 280
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-012-Q1-E1-A6
<400> 7968

cggtcctacc ttccacgggt cgacgcacgc gtccgaccac gcgtccgaat cgccagccct 60
atctttggtg cagtcattgg tcgaaaccat cagggtacag cagctgcagc aactcgtgct 120
agctgtgatc acccagtag cactggcaca cctttctccc tactctcagc gacaacaatt 180
tcttcaagtc aagcacatgt ccacttttag ccgtgtctgc gtacttgag catcacttat 240
gaccatacaa ccagctaact actgcctaact cttagcaaca 280

<210> 7969
<211> 426
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-012-Q1-E1-A7

<400> 7969

cggtcccaca ttcccgggtc canacacgcy tccgaccacg cgtccgcgcc gacaaccgag 60
gtttcgacgt tctgcacgc gtgcgagggg gaggcggtga cgaagctcac caacgagaag 120
gtggcctact tcaacgcgcc catctatctg cagaacaaga cccagatcgg caaggttgac 180
gagatcttcg gccccatcaa cgaatcctgc accaccgcgg cccgaaaaac aagctcaaac 240
cttaaccacc gacgatgcca gcacgatggc ccgctacgac cccgccatca ctatcttctc 300
cgccgacggc cacggcgggc angtggagta cgctcttgag gccatccgcg gcacgaacac 360
cgttgtcttc cgcgtcgaga agaagtccac acccaagctc gatgactcca ggcgcatagc 420
tatgtt 426

<210> 7970
<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-012-Q1-E1-B2

<400> 7970

ccggatccac ccacgcgtcc gcacacgcgt cagcccacgc ttccgcactg ccaccgcgcg 60
cttggccgtt gccgcaaccg tctgtcttgc cggcggcggc gccatggccc aggaggtgct 120
gctgggcgca ggcgacggcg ggctcgtctt cgagcccagc cagttcacccg tcaaggccgg 180
cgacaccatc acctcaaga acaacgccgg cttcccgcac aacgtcgtgt tcgacgaaga 240
cgaggtgccg agcggcgctc acgcctccaa gatctcgag gaggagtacc tcaacgcgcc 300
aggcgagaac ctagtccgtc accctcaccg tgccgggcac ctacggcttc tactgcgagc 360
cgcaccaagg agcaggaatg gtcggcaaga tcacagtcaa ctaaagctag ctatcgattc 420
catgcatttc gatctgtatg taccgccgcc gtccatggat gat 463

<210> 7971
 <211> 291
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-012-Q1-E1-B5

 <400> 7971
 tcccgggtcc acccacgcgt ccgcccacgc gtccgcggac gcgtggggca accggtccag 60
 cactttcacg ctccagctcca gcaatggctg cctccaccat ggcgatctcc tccacggcga 120
 tggccggcac ccccatcaag gtgggctcct tcggcaaggg ccgcatcatc atgcgcaaga 180
 ccgtgggcaa gaccaagggtg gccgccttcg gcagcccctg gtacggcccc gaccgcgtca 240
 agtacctcgg ccccttctcc ggcgagcccc cgagctacct caccggcgag t 291

<210> 7972
 <211> 286
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-012-Q1-E1-B7

 <400> 7972
 tcccgggtcc acacacgcgt ccgataaagc gtacgcacgc actcgcctcc gacagcgaac 60
 gcgcaacgtc cttctccgcg gccgcccggc cggcgggtcc ctgttccctc tcttccccctc 120
 ggagcagcag gaccaggagc aatcgcgttc gtcctctgcy ctgcgcggcc cgccggcctg 180
 accaagcata gcttatcggc cggagctgga tgaccgaacg atgcatcatg acctcagaaa 240
 ctccagataga ataaaccccg aacaagccca tccagtgatg tccgcg 286

<210> 7973
 <211> 133
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-012-Q1-E1-C11

 <400> 7973
 gatgcccccc ggcgggcgccg gtagcgcttc ttcattggact cgaccttggt cttgcactgg 60
 ttggagggtct tggcgctgct acagatgcct ccagaggcct tcccttcggg agctctatag 120
 tatccatgct tac 133

<210> 7974
 <211> 353
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB189-012-Q1-E1-D4

<400> 7974

 cccacgcgtc cgcaaggagt aaggtggccg acgaggactt ggaggaggtg gacaaggcct 60
 gggaccggcc cagcaggaga aagagcacag aattcgatat agccaagagc atcgagctgc 120
 tggctagctc gttcttgaag attgagcacg ccaggatgga gatgtacagg gagacagaaa 180
 ggatgagggg tgaagctgag attaagaagg gggagatgga gctcaagaga actgagatca 240
 tggcgaaaac gcaccttcag atcgctaggg tttntgcaaa gaaattgaga cagagcagtg 300
 gaaagaaagg tgtcagttcg tcagtaacag ctgaagtgga cacccttacc aag 353

<210> 7975
 <211> 417
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-012-Q1-E1-E4

 <400> 7975

cccacgcgtc cgcacacgct gccacgcacc cacggtccgc ggaccgcgac ccacccgacc 60
 cgcgatcgcc atcgctcac gactcgcac cctcccgagac taccataaaa accaccgga 120
 cggcgacggc gacgggtcct ccgcttcgcc tacggcatat tccccgagg cccgaacca 180
 aaccaaacca aaccagccca gatcagcgaa acacactccg ctctcccgag accggacaca 240
 tggcggcggc ggcggtgacg tccaacggcg gcgcagtggc cgcaaattgga ccggcgccc 300
 gccggtggg ctccgtgtac agcgaggtgc agacgaaccg gctcctgcac gccctttccc 360
 ctccccctcg tctccgctc caacttcccc gtcgtcgacg gccccgccag ctccgcc 417

<210> 7976
 <211> 409
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-012-Q1-E1-F3

<400> 7976

accacgcgt ccgcaccacg cgtcagccca cgcgtccgcg ccgccgaggt cctgggcgcc 60
gtcgacaaac cacctccctc ccccgctctc cgtcgtctcg gaaggaacgg ccgcccgtcg 120
cgccaaggat tcaaggggtgt gggagctgag ttgggaggag gactgctgct gcagccatga 180
aggccctcat tctcgtcgga ggcttcggca ctgcctgcg cccgctcacg ctgagcgctn 240
ccaagccgct cgtggatttc ggcaacaagc ccatgatcct gcaccatata gaggctctga 300
aggaagttgg tgttacagag gttgtcctgg ccatcaattt acagcctgag gtcagtctca 360
actttctcaa ggacttcgag agcaagcttg gcatcaagat tcaactgctc 409

<210> 7977

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-012-Q1-E1-F8

<400> 7977

cacgggtcga cacacgcgtc cgaccacgcg tccgccacg cgtccgagaa gcaggaatta 60
gagttaaagt ggacgactca gagctgcgaa ctctggatg gaaattcaat cactatgaga 120
tgaaaggggt tcctgtaaga atatagatag gtccacgtga tgtcacaaat aagagtgttg 180
tggtttctag gcgtgatgtc cctggaaagc aaggaaagga gtttggagtg tctatggagc 240
cttcgatatt ggtgaaccat ataaatggtc gtctagatga catacaagca tgccttttac 300
agaaggcctt aaaatccgtg atagtaacat tgtc 334

<210> 7978

<211> 330

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB189-012-Q1-E1-G2

<400> 7978

gggaccaccc acgcgtccgc ccacgcgtcc aggccgggac cgtcgggtac gtggcccccg 60

agtacgggca gacgtggcgc gccacgacca agggcgacgt gtacagctac ggcgtgctgc 120
 tgatggagct cgccacgggc cggcgcgccg tggacggcgc cgaggacgag tgcttgggtgg 180
 agtggggccc gcggtatggcc agagaagggt ggagttcggc gggcgccgtc gtcggcaccg 240
 tgtctcngga gctcctgatg ctcggcatgc ggtgcacggc ggacgcgccg caggagcgcc 300
 ccgacatgcc ggacgtgctc gccgcgctgc 330

<210> 7979
 <211> 390
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB189-012-Q1-E1-G3

<400> 7979
 acccacgcgt ccgaacacct cgcttcaacta gaggaataat cctagcagct tcggttgccc 60
 tcaaaattgt ccgaaaaaag gatttgaagc attgtgagag ggccctgaga cgatggcgaa 120
 cctgttcctc aagcaggcaa agcagtacgt ggcgacgcgg ccggtctacc cgccggagct 180
 cttcgacttc atcgctcca agaccctcg ccgcgacatg gcctgngatg tcggcaccgg 240
 caacggccag gccgcagcgt cggtcagtcg accatgcac ctcgctctcg cctacacgga 300
 acgctgcaga cgcaactgtc gtgcattatc tttataaagt gaaggctggc tgggtgaact 360
 ttcatccaac ttgcagctgg cgaaactgta 390

<210> 7980
 <211> 288
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-012-Q1-E1-G8

<400> 7980
 ggggtccacac acgcgtccga ccacgcgtcc gccacgcgt ccgcccacgc gtccgcaaag 60
 agagagagaa acaatcaggg gtccatccat tttgtcagc catgacgaac ggctatctgt 120
 tccgcgagta catcggcgcg cagtccaccg gcgtccagtt ctccgacgtg cccatcaacg 180
 ccttcgttag cttccacttc atcctctcct tcgccatcga ctacacgccc gtggggcagc 240
 agccgaagcc ggtgccgacc aacgggggtgt tcagcccgtt ctggggaca 288

<210> 7981
<211> 175
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-012-Q1-E1-H7

<400> 7981

aaatatatat atatatatat agcagtagta taacatagcg tatgttttta gcggggggat 60
cagtagtaca cgtttgatgt gaatgatgta ctcaactgaa agagagattg cacggcgaac 120
ctttgcgtct gttcttgccc ggacaggata attttcgatt ttctcgacct aaaaa 175

<210> 7982
<211> 118
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-012-Q1-E1-H9

<400> 7982

accacgcgtc cgataactctg ctatctcgcc gtgatcgta gtgatgattc cgtctgggtg 60
ctactgatac actattgttc catatcggtt ccatttgaaa tatgcgttgt tcttaaaa 118

<210> 7983
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-013-Q1-E1-A9

<400> 7983

gggtccaccc acgcgtccgc ccacgcgtcc gcgagttcag atcgagcgcg cgccaagcaa 60
gtcttccggc cggccgcgaa gagagcaatc aagcaagaca agatggtgaa gctcgccttc 120
ggaagcgctg gcgactcctt cagcgtcacc tccatcaagg cctacgtggc cgagttcatc 180
gccaccctcc tcttcgtctt cgccggcgtc ggttccgcca tcgcctacgg gcaactgacg 240
aatggcgggc cgctggacct ggcgggcctg gtggcgatcg cgatcgcgca cgcgctggcg 300
ctgttcgtgg gcgtgtccgt cgcggcgaac atctcgggcg gccacctgaa cccggccgtg 360
acgttcgggc tg 372

<210> 7984
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-013-Q1-E1-B1

<400> 7984

ttttgagaaa agtattcttt attacagagt gctctgtcct ggctcagaac aaattgtatg 60
taactttact aatagtttac aagctacatt tctgtataaa aaaataactaa tgatactttt 120
tccatcccaa gtccggccgg caaactctgc acatgcatgt atggacctac tgaagcttcg 180
gacaggccgg ggcagatggc gtcgacatgg aacagaggct cgggtagcaa gcttgcttcg 240
acgccgggtc ctcttccaac ggaggcggca cctggccgta tatcatctcg cag 293

<210> 7985
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-013-Q1-E1-B11

<400> 7985

gtccaccgac gcgtccgcac acgcgtccgc ccacgcgtcc gccacgcgt ccgggaaagc 60
agagagagcg ggaaatcatg gagctctgcg tctctacaac tgcctccgtc ggcgcaaccg 120
ccgcgccaat atccttcgcc ccgccccggc aaggcgcgtc tgccttcacc gccctcccg 180
tccaccgccc aatcccaact cgaggctggt gttgcgccag cgcgcccggtg cctgaccgg 240
cgccctccga agagctcgca tccgcctcct acaccgtcgt cgtcgcggaac aagcccgatt 300
cgctgcccga tgacaaggct gacgagggtta gcgccgcgcc tagtgggtcc gcggaggcgc 360
ccg 363

<210> 7986
<211> 338
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-013-Q1-E1-B3

<400> 7986

gcgtcgaccc acatttccga caacacacac ccgacaacat taacacacac ttaaaaaatc 60
aatttcgttc attcttaacc ttaaccagg aacctataac ctacccaaaa caggattaat 120
aatggcggt tcaacggtgg caaccctctc tttcccggtta acaacggcaa ctttcgcggc 180
ggcgggcgcg gcgggcgcg ccgacgtgct gatcgctgct ncgangaagg cgggcgcncg 240
gcgcgtcgtc tggttccccg cggcgggcgcg ccgcgggcgc cggcggttgg tcgccgtgcg 300
gtccagcggg ccggccacgc cgtcggagat ctccgaca 338

<210> 7987

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-013-Q1-E1-C1

<400> 7987

attcacgggt cgacgcacgc gtccactatt ttatgctcgc catattcaag ataatcgtgg 60
gattgatact gcgctgcctt gcaaattggt atgtaaatct acggctcaca agaaaacaac 120
acgtggattg agtacatggc accacaattc tgctgctatc gttacatctg tgagtagaaa 180
ttttgctgtg gtgcatgaag tgcagcaagc actgcagctg ctgagagtta tatgacagaa 240
gtattcatag tatagtacag cgcagatgaa tattatagtc tcttcttcca agggttttgt 300
cgattcgagg aacagattag tcaaattttg tgggtgttag acttctgacc tccgtttgtg 360
catagctcag cttcatccaa aactatctgc tgtcacctaa ccaagatgtt 410

<210> 7988

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-013-Q1-E1-C10

<400> 7988

tttttagcgt ttatccaata cttcaaaaat actttgcgtc caaatgtggc cttatttgggt 60
agctggtact acagatcaaa taaataactt gtacaaccat cgaaccatca taattccaca 120
ggccacagct aatagaatat acatacagga caaatcagt gaatatgcaa gttgctacca 180

acggataagc tgtacaaaaa atcctcaaaa acgaaaaaga gaagaaaaaa aaacatacca 240
tctcaacaga caacactcac cgcccacaac acttacatga gatgagcaat aacaatctca 300
atctataaac agagcacagg gcactgcata attccagcca acgcatttac cagcgccaat 360
c 361

<210> 7989
<211> 418
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB189-013-Q1-E1-C12
<400> 7989

ttcacgggtc caccgacgcg tccgaaactg aaaaaaggcc atacaacctc aaggaggcaa 60
ggtgataata cgggaaacct tggttggacc aggatcttcg ccttgcaacc ggaaaacctt 120
gaaaacgcaa tgctggtttg ttcccaaaac catgacaatc aacggtgtca accgaaatga 180
ccaaaattgg aaaaagataa cctttgaacc cgggttaaca tcttacaaga tcataacctgt 240
cctgggcact cgatccataa ttgaagtctg cccatagaaa ccaatataat taaggatggc 300
aacagcctcc catcgccctt gcgagtataa ttccaaacca gcacttcaat acttgaatcc 360
gtgagggttt gaggtcactt acgtgtntta ctattgtac gcttttaaac aataacta 418

<210> 7990
<211> 400
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-013-Q1-E1-C2
<400> 7990

attaccgggt cgacgcacgc gtccaccac acgtccgggg aacacgagtg gttccagaca 60
cgcgcaaggg tcttgccgc gttggtaggg gtgaagaggg attagtccat tttcagtggc 120
ttgaccgtgg acagaacata gttgaagatg atcaaatcat ctttcctgat gaggcggctt 180
ttgagaaggt gacagaatct cctggaaggg ttacatctt gaagtttaag caagacagca 240
gaaaattctt cttctggatg caggaaccaa atgctgatgg ggactcccag acttgcatgc 300
aagttaatgc ctacataaat cgatcattag atgctgaggg tgatcttcga gtacctattg 360

aagcagaaat gtctgaagat acggctgatg atgatatctc

400

<210> 7991
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-013-Q1-E1-C4

<400> 7991

cgtccagaaa attgattcct tgtcggatcc ggccttgacg gaattctcgg cggcctcaaa 60
tttgatacac cttgggttcc gcgggaatat attgtcaagc tttgggcttt tacagtttgt 120
acccctgtc acactctgtg tgttggattt aagcggctgt tggatcttaa caggcgatgc 180
tatttcaaca ttccgtaagc gtcacctac gattgaattg agacatgagc tcctgcacga 240
agttgaggaa aattttgttg gtggttccca atttcgtaaa cctagacgca gacgatctcc 300
tcattgtgaaa gcagaagttg gaaacagttt tgctggctca agtaggctac acgatatccg 360
ttttgtagat gaaaggataa aatacagcaa ggaggaat 398

<210> 7992
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-013-Q1-E1-D1

<400> 7992

gtcgacgcac gcgtccgaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaatgga aataaaaaaa ataaaaaaa aaaaataaaa atttaaaaaa agggggggcc 180
cttaaaaagt tttctttttt attttttgtt ttctggaatt ttaatttttt tctttttttt 240
catctacttt ttttttatag gctctttttt tttaaaattt ttgtttttta aaacctttgt 300
ttttttaaaa tttttccctt ttttaaaatt tccttttttt aaaatgtggc tttttttcaa 360
agggtttcta tttttttccc ttttcaaaat ttttcgggt ctttatcttt tt 412

<210> 7993
<211> 424

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB189-013-Q1-E1-D10

<400> 7993

ttcacgggtc gaccgacgcg tccgcacacg catccgggta tatcgtaccc tgaattgaca 60
 gagatgcaag cccggggccat ttttgaagct gctatagcaa tgaccaacca ggggtgttcaa 120
 gtgttcccag agataatggt tcctcttggt ggaacaccac aggaactggg gcatcaagtg 180
 actcttatcc gccaaagtgc tgagaaagtg ttcgccaatg tgggcaagac tatcgggtac 240
 aaagttggaa caatgattga gatccccagg gcagctctgg tggtgatga gatagcggag 300
 caggctgaat tcttctcctt cggaacgaac gacctgacgc agatgacctt tgggtacagc 360
 agggatgatg tgggaaagtt cattcncgtc tatcttgctc agggcatcct cnaacatgac 420
 ccct 424

<210> 7994
 <211> 408
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-013-Q1-E1-D2

<400> 7994

ggtcagaat tcacgggtcg acgcacgcgt ccacctcct ctcgcctcc cgtccccaag 60
 gccaatagtt ttcaagtggc aatggcggac caggctaacc aaccactgt cttcataag 120
 ctcggtggcc agttccacct gcgctcgatc atctctgaag gtgtacgggc ccgtaacata 180
 tgcccatctg tctcatctta tgaaaggaga tttgccacaa ggaactacat gaccagagc 240
 ctttgggggc cttcaatgct tgtagcggg ggcataatg tcccagtgat gcagaccccg 300
 ctctgtgcta atgtcctgc tgagaaagga ggcaagaact tcatgattga tttcatgatg 360
 ggcggtgttt cagctgctgt ttcaaagact gctgctgctc ccatcgag 408

<210> 7995
 <211> 255
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-013-Q1-E1-D8

<400> 7995

cggacgcgtg ggcgctcaag gccctgggca ggcccaacgc cgtggacggg accatgtcgc 60
cgccgttgcg cgaggagttg atgattgcgt acaaggacga cgaggtcgtg gacgcctgag 120
tgccggcaagc agagaggagg atcgacgcca gcagcgtctt atcttaattg ccttgttgtt 180
caatgatgaa tcgatcgaat tcccttgggt tagctttatt attgttggtt ttattattaa 240
caannannan nnnnn 255

<210> 7996

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-013-Q1-E1-E1

<400> 7996

ggtccagaat taccgggtcg acgcacgcgt ccgcccacgc gtccgaataa ttcagcggtc 60
gtcgaataact gcaggacgtc aatggctgcg ctttctggga gcaccgctgg acttctcggc 120
ctcaccgggtt tcttcgggtt cggcttttat gtattcgctg ttgttggcct ttggggactt 180
ttgatgctaa aagcagggtc gcaatggaaa aaatattttg ttaatagacg ggtcatactg 240
accaatgggtt tcttcgggtg attattcaca tacatcttgt tttggacatt tatctacgga 300
atggttcacg tttattgagg gaggatcaaa tgtgcctttt cattctgcat ttttaattta 360
attatatacc atttttatgt ttgttgttct atttattaca ataaaaagtc cttttt 416

<210> 7997

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-013-Q1-E1-E12

<400> 7997

ttcacgggtc gaccgacgcg tccgcatctc ttgaagcaga tattgtacaa gaagaggctc 60
gcctgcacac cattgagaat gatgggcttt ccggcgattt cacatcatca tcttaggtat 120
gatttcatct ctttttatct tcttgtgcaa cgggtgccac ttctggctc ttgctatttg 180

gttaaccgac ctatgatcac acgagccaag gacaggctgc cagtgatccc aatgactgta 240
 accatgattt gtttttatct tgcattggta tcttgatatag taatggttca gtgcatgatg 300
 caaactaaac aatgtctata tagttgcttt tatctttgcc atggctattg tgggaactgg 360
 gaagtatcta gtcctgatgt gggaccttat atgttggcat ctggaagatg gtttttactg 420
 gatggatact gttag 435

<210> 7998
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-013-Q1-E1-E3

<400> 7998
 gtgccggtcc agaattaccg ggtcgacgca cgcgtccgaa catcgagtac agtcgggctag 60
 gtaatctggt ggtacgacga catggcggcc accagcagca agtcgtcgtc gtcctcgagc 120
 tcggcgcagc gggcagctgc cgcactgctc gtggccgccc ccgtagcggt gtccgtcctg 180
 gtggtgggcg cggcggcggt gtgcgacatg agcaacgagc agttcatgtc gtgccagccc 240
 gcggcgggcca agacgacgga cccgccggcc gcgccgtcgc aggcgtgctg cgacgcgctg 300
 gcggggggcg acctcaagtg cctgtgcggc tacaagaact cgccgtggat gggcgtctac 360
 aacatcgacc ccaagcgcgc catggagctt ccggccaagt gcggcctcgc cacgccgccc 420
 gaatggt 427

<210> 7999
 <211> 270
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-013-Q1-E1-E9

<400> 7999
 accgacgcgt ccgaaaaaaaa ataaataaaa aataaaaaaa aaaattaaaa aaaaaaaaaa 60
 gattttaata aaactaaata aatatttaac ggatgatata atgtaaagct agaaagtctt 120
 catgtgagct tcgatggaat cgattcgggg gtcggtcacc ggagggctta gcttgagatt 180
 ccttcgagtt taaatgttac ttattttcaa tgggccctat atttaaattc tctggccggg 240

gtttttgcaa attttccctt ggaaatcccc

270

<210> 8000
<211> 130
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-013-Q1-E1-F10

<400> 8000

gggccaccga cgcgtccgac gtcccggtcc ttccgtccat ccatccgcca tggcgaccgc 60
tacgtactg agtcctcct tcgcatgcc cgccgcccgc cgtagggcct cctccccttc 120
ctccgctca 130

<210> 8001
<211> 414
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-013-Q1-E1-F3

<400> 8001

gcgtccacgg acacgtgggt cgaccagggc gtccgcccac gcgtccgccc acgcgtccga 60
tctcctcgct ccagtcctcc gggaagcatg gcgtccgtca ccgcccgcgc cccggtagcg 120
gcccttcgcc cgtcgtcggc atcgtcgaag tcgtcgtcgg ccttccttgg ccactctagc 180
cgctcgggcc gcaccgcgtc tcccacgagg cgcagcctca aggcggaggc caagggcgag 240
tgggtccccg gacttcctc cccctctac ctcgacggca gcctggcggg tgacaatggc 300
ttcgaccggt tgggcctgnc ggaggacccc gagaacctgg cgtggatcct gcaggcgag 360
ctggtgaacg gccggtgggc caagccttgg ccttggccgg gaaggcccac cccg 414

<210> 8002
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-013-Q1-E1-F9

<400> 8002

ttcacgggtc caccgacgcg tccgcccacg cgtccgccac ttcttcggct gatcgggctg 60
 ctgctcgatc gatctacttg cgtacgtagg ctgctcccca ggaccagaag gagcatgcat 120
 ggagggcgaa cgaagtcacg ggggtttgat tgcccgctca tgtatatcat gtgtagttac 180
 tgatgatgtg tgtgcatggg acttcgtacg cgtgtttggg gatcgatgtg tgggtgtgtg 240
 gtctctgcat ggacattttc ctactctgcg tttttctctt ctctactgat atagtatata 300
 tgtggtgtgt ctatatatgt gtgcacgtgg ttttcgctcg gctttttatc aacgctttga 360
 gaataaaagc tttctcttca tctgtatatt ttatttttaa tgaaagaaat aaaccactat 420
 atatttcgac actcttaaaa 440

<210> 8003
 <211> 212
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-013-Q1-E1-G10

<400> 8003

gtcgaccgac gcgtccggga aatgatcgag tacatggata aggtcacgaa aacgggtgcc 60
 acggaggagc acacgggtgga ggaccccatc gacgagtccg ttgcctagac gatcgtcatt 120
 ggaaccctcc gtgcatcatg gcgtatcaca tcgtccatcg agccgacgga cgaggggtcaa 180
 ggcgatgatg accgtattac agacattatg ga 212

<210> 8004
 <211> 439
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB189-013-Q1-E1-G12

<400> 8004

tcgaccgacg cgtccggaga ccaacaagca acatagaaag tggaatccag tagcaacaat 60
 agagcaacaa tggcgaccaa gatattttcc ctccttatgc tccttgctct ttccggcatgt 120
 gttgctaacg cgacaatttt ccctcaatgc tcacaagctc ctatagcttc ccttcttccc 180
 ccataccttc catcaatgat agcttcagta tgtgaaaacc cagctcttca accctatagg 240
 ctccaacaag caatcgacg aagcaacata cctttatcac ccttggttca acaatcgcca 300

gccctatctt tgggtgcagtc attggtacaa accatcaggg cacagcagct gcagcaactc 360
 gtgctacctg tgattcaaca agtagctcct ggcaaaacttt ctctactc tcagcaacaa 420
 caatttcttc cattcaaac 439

<210> 8005
 <211> 409
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-013-Q1-E1-G2
 <400> 8005

ggccaagaat tcacgggtcg acgcacgcgt ccgcccacgc gtccgcccac gcgtccggga 60
 ttatttacaa gcggtattca agctcttatt ttgcaacgt tagccgcagc ctatataggt 120
 gaatccatgg aaggatcatca ttgaattaac tagtttttga aatagtcttt ctttttttag 180
 cttagcccaa ttcattgcatt attccggata atcctcttag ttggaaaact aaatagttcg 240
 aaaggcgtat gaatatacaa cctagagttg taggagagag aatagactat attatggaag 300
 aggtaaagta tatatgcatt cagggggggc aagtcagggt agatctatat ctttaatgcc 360
 tataagacag tcattctttg tgtggctttc taaagaatga ttttagaat 409

<210> 8006
 <211> 407
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-013-Q1-E1-G9
 <400> 8006

agggagtggc caaccggtga taatctagct agccagcctc gccatgcctc gccagaggac 60
 cctgcctcc gcggcgccg gcggcgccg gctgctctg gtggcgccg tctgctgtg 120
 cctgtccgtg cctccggggc gcggcgccg tccaggcgcg gaggtcgcg agttccctgg 180
 gttcacgggc aaactcccct ccaagcacta cgccgggtac gtaacagttg gtcgccatga 240
 gcaacgaaag agacacctgt actactacct tgccgtctct gaaaggaacc caagcttgga 300
 tctgtggtc atctggataa atggcggtcc agcatgttca gggtttagtg catttctgca 360
 ttcatattga ctttttcgaa tggagggtc ccaagttcat atcaacg 407

<210> 8007
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB189-013-Q1-E1-H11

 <400> 8007

tccgaaattc acgggtcgac gcacgcgtcc gattattatg ataacaaaca aaaggtagc 60
 agctggcaac ttccgccaga ggtgtgtgag atcctcaaga atgcggaatc tggttcctta 120
 aaagaagggt caacttcact gcaggatgct gcaactatag agaataaggg agtaataagc 180
 attgatgcaa gtactcctgc catacagaca ggtggccgtg attcgttgcc acttcggcaa 240
 acagttgccc ctgcatcgcc atctccattg gatttaataa agaagaaatt gcaggatgct 300
 ggtgcttcca gtgcgccttc agctctggct acttcattctg ctacctctga attgaatgga 360
 tccaaaccag ctgatgctgc acttaagggg caactagtgg cgaataatgg tgagaaatta 420
 nnnagataca atggatgat 438

<210> 8008
 <211> 420
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-013-Q1-E1-H3

 <400> 8008

acgctgccag tacgggtccag aattaccggg tcgaccacg ccgtccgacc aacgacgatc 60
 cgaccacacg accttctcgc gactactgcc tagcacaacc ctgtacaacg caatataccc 120
 tgctaccatc ggtcctgacg aaacaggaaa accaccagtc acagacgcgc tagcacgaga 180
 agatggagaa ctacgcggac cgatcgcagt tgacgcctac gaagatcaag gtgttctacc 240
 agacgttcgg cgtgtagaac aaggacatcc acgagttcag ccacaactgc accagcacc 300
 tcgaccgcag gaactcctcc gacgacgtca tgctccacta cgagctgctc aaggacgacg 360
 tcagccacat agtctccggc aaggatgatct tcagaccaa ctgcaactga tccagctaca 420

<210> 8009

<211> 314
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-013-Q1-E1-H4

 <400> 8009

 gggtcgacgc acgcgtccgg agttgtggat cactgtcaag gtatggtaga accaaggatc 60
 taggtatata tatgtgcttc catcatcatc ggaccggaat aaagctagca atctctcttc 120
 ttcacgatcg agagatagcg cgcgtgctg taattaagta ttatagatta ctacatacta 180
 tatatatgtg catgcatgat gcatgcgtat gtgtatctat atatcatgtg atggtttgta 240
 tatgagctag ctatagctag agtcgtgtgt aatagcatac tacaaactaa gctaatacaa 300
 tatccaagtt tgct 314

<210> 8010
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-013-Q1-E1-H9

 <400> 8010

 ttcacgggtc gaccgacgcg tccgagctgc acgaggagat tgagcagagg gttggggggcc 60
 tcaggagct ggaggaagcg agcaaggagg agcagctcac aaagtgatca cgcgggcgaa 120
 tgggctactc atcagctctc tatctgagct tcgtagcaa ataagttcag acttctcttt 180
 actgccatgc tcaagtctgt atatggccaa aacccaaaac gattgatcaa ctgcgtact 240
 gcagtgcaat agcaggatac gtatagtttt cttttcaagg gaaacaggag gggagtgcag 300
 tgcacccccg ccatactgc atgttattaa taaaagaaag ttatttacag aatcaaaaag 360
 taaacaaaac ggaatgagcc ccctgaaaca aaaccatgtt aaaaccgtg ctggtggcca 420
 catcaaaaca 430

<210> 8011
 <211> 327
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-014-Q1-E1-A11

<400> 8011

ccgggtcgac ccacgacgtc cgagaggtgg tgggtgctcct gctgctgagt ccaagaaaga 60
agagaagaaa gaagagaaag aagaatccga tgatgacatg ggtttcagtt tgttcgagta 120
atgcggtata cttggcattt ggttttgctg taccctttcg aaatctttat gtcgttgttt 180
agtttggtgt attcgactat cttcttagac tttgctgaaa ttctcaagag atttttttac 240
tcaaacatca gtccacttgt gattggcatt tatatttcaa aaaaaaggat atgagtgaaa 300
gcgctggaaa aggccaaaaa agataac 327

<210> 8012

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-A5

<400> 8012

ttttatttct acttaatgaa taggcagtgc gggtgccatt tatatatttt tctaaaaaaa 60
acttaggtca tgcattgtaa acatatttgg catagctttg tttctccttg tgtataacta 120
cggattcctt aaatttctgc aggatgaatg gacaggggag cagaaggttc agtacagtga 180
cataccagat gacatcgagc cagaagagat taggccgatg ggaaactatg cagtttctat 240
aacttggcct gatggattta gtcagatagc accttatgac caattggaaa tgctggagcg 300
gttgggtggag gctccgagtc cagcagcagc gtctgcagtg gcctcgtc 348

<210> 8013

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-A9

<400> 8013

cccggtcgca ccacgacag tccgagcgga tcatcgtgtt caccaccaac caggtcaaga 60
agctggaccc ggcgctcatc cgcagagggc gcatggacaa acacatcgag atgtcctact 120
gcgggttcga ggcggttaag ttcttgcca agacgtacct cgacgtggac tcgcaccctc 180
tgttcgacgc cgtcggcgag ctactccggg aggtggacat gacgccggcc gacgtcgccg 240

agaacctcac gcccaagagc ctcgacgacg ggccggactc gtgcctcgcg gacttggtga 300
 aggcgctgga ag 312

<210> 8014
 <211> 413
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-014-Q1-E1-B2
 <400> 8014

ggtccagaat tcacgggtcg acgcacgcgt ccgcccacgc gtccgtatct agatcgagag 60
 ctgccttgct tgcacatgca aaaccgcaa aagcgagcgc ctcatgtctt tatattgctc 120
 tcaaaccctc cgtttctcgc tccaaccac tgccactgta cttgtgttgt gttgtgttgt 180

gtgctgcaag aagaagagga ggaggaatag catgtgctga gaagcctgcc agcgcgcttt 240
 acgacaagca tatatggggg agatcaccaa gcctttgcga agcagaagct tccgaagatg 300
 gcctacgact actacgcgtc cggcgccgag gatgagtgga cgctgcagga gaacatggac 360
 gccttctcca ggatcttgag cagcggttga tgagataaga ttgccaagaa acg 413

<210> 8015
 <211> 417
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-014-Q1-E1-B4
 <400> 8015

gggtcgacgc acgcgtccac cctgcaaagg tgaaggcatc aaaggcttct gcaaaaaacg 60
 gcaccgcaac tccagctatt tcctaccgga caaagggtggc ccaagcagca acagaaaaac 120
 ccgtgctcgc caacggattc cctaaaaccg gttagctgga ccgccaact gatgctccat 180
 acctaccgc aagcaacggt caacttcccc aagagctcga ctgaattgct gtacaaggga 240
 actattgacc aaccaaggca ggctgtggaa ctgggcaggc atggcgccct agagcggttg 300
 gggtccatct cgtcgtgcc ggagagcagc tggctagctg ttagcgtttt ccctagtttc 360
 tctctctccc tctctctctg tcgctgtgtt ccccgtttca gtttccttat agccccga 417

<210> 8016

<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-C11

<400> 8016

gatctgctcc acccatagct gcagttgtgg ctgcacgtac ttgttgagct gttgtgttgt 60
gtccatctcg gtactttttg atttgttatt agtagtaact gtgatgacga tgcattgggct 120
gctctgtctt ctgcagctct agcattacac tcactactac gtgtgcgtgt tgtaccgttt 180
tgtattgagt ggtgacttga acgtggcgct ggtgatttgt actaccttct ataaataaaa 240
gttgaaaaaa aattacaaaa cattgaaaaa atctctgcaa aagaaaaatg tgggg 295

<210> 8017
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-C2

<400> 8017

acgctgcagt acggtcaaga attcacgggt cgacgcacgc gtccaccac gcgtccgaat 60
gaatttgctg attaccataa taggatgctt caggaggatt tggaaaaact caggaatctt 120
caccctgatg taaccatcat ttatgctgat tattacgggtg ctgcattgaa catattccgt 180
gccccactca agtttggtt cacagtccca ctgaatgcgt gctgcggaag tgacgtccg 240
tacaactgtt ccccttcaat actgtgcggg cgtcctggat ctacagtgtg ccctgacca 300
tcaaaatata tctcatggga tgggtctacac ttcaccgagg cgagttacaa agttgtcatc 360
caaggagtac taagggggta cgccaaacct cctctttcag aagcctgcaa aggtgcggag 420
ttcaaagttt ctcaactttc acaatgtaca gataatccaa ca 462

<210> 8018
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-C4

<400> 8018

ggtccagaat taccgggtcg acgcacgcgt ccaaaatggg cagtggttt ataaagaagg 60
 aataagtc aaatccactta cgggcctcta cttgtgcctt accaatgttg ttacttcaga 120
 aagtgggaaa ttctctttat cagctatgcg acaccgctta accacatgga ccgagtatac 180
 aatatcaatg gattctggca acatctcagg atcaaaatta acctacattg gaaaaataac 240
 gtctaacttc ctaggcacaa gatttttaat tgatgatata caatccccct ataatggggc 300
 tgtaattcct cctgccggaa ggaccaccac gaggttcaac tccacaaaag tctctccaaa 360
 gctgccttca gtcagttata acatcgaca tgtatcgat gagctaaat 409

<210> 8019
 <211> 107
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-C7

<400> 8019

cccgggtcga cccacacgtc caccacgcg tccgacagca catcgatcga cgacgatatc 60
 gggaagcaat atgggggttg cttgtcgcg gctggaggag attagga 107

<210> 8020
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-C8

<400> 8020

gaccacacg tccacccacg cgtccgacag cacatcgatc gacgacgata tcgggaagca 60
 gtatgggggtt ggccttgctg cggctggagg agattaggac gcagtaccgc atggcagcgg 120
 aagacggcga ggctgacagt ccggcaccgg cgccagtgtc gccgaccggt gctgctgctg 180
 cttccggcgg cggcactgag aagaagaagc aggcggacga ctcgtcgtcg tcgtcaaaga 240
 cgacagaatg ggttctcat aagttctctg agatcgtcgg tcaaagacga cctggtgagg 300
 atatgttccg agggatcgac cttccacgat cggatcagca gccgaaagca aagaagtact 360
 gggatcatgg gagaaatgca aactgcctca tgctgttccc taaaggatca gcatcacctg 420
 gggttcggac gcaa 434

<210> 8021
<211> 299
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-014-Q1-E1-D1

<400> 8021

gtcaagaatt accgggccga cccacgcgtc caccacacg tccgccacg cgtccgggtg 60
tangtgtact caccagggca tcattctggg ggaaggatc gagttcctct gcctcttctg 120
ttgctttcaa ctctctgga gaggcataa aatactcaac ttgctgcata agactactta 180
ttactgtact tggggcctgg gggacaaaat ttctctccat gactactagt ctactaccat 240
gtaaatgtan gagtttatat tatatcctgc aatatatact acctattatc tacagtatt 299

<210> 8022
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-D2

<400> 8022

gtgcggtcca caattaccgg gtcgacgcac gcgtccacac ctggagacat gcattccaca 60
tcctgcgaag caacatcatc aatgcttgcc atgtcaccag aacaggctgc gcttttccac 120
attaccgaga gttccgcta tgccgcgctt ctttactctg agcgcctagc gcagccgact 180
cttcccgtt cagctctgaa cttccaaaac ttggtatcac agggacttta ccacatttct 240
cagattggta tgacgagctg cgtaacaag ttcctactat ggccattatt cattattggc 300
acggaatgag ttgacctga acaccgcgt gtggtgcgac aacgatgtgt ggagattcaa 360
cgtgagagcg ggttcttcaa caatctcagt ggtctagaag tgctcgaacg agtatggcgc 420
gaagatgacg 430

<210> 8023
<211> 271
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-D3

<400> 8023

gtgcgggtcaa gaattcacgg gtcgacgcac gcgtccgaaa agagtgcctc ggtaaattgg 60
gagcttggag gaagtggaca aggtggagaa attcctggct tgaatgtccc tgcttcatgc 120
cagagctctc tcatcagatg gactcccaaa gacatcaagt ttagggaggg aatatgtact 180
ctctctttcc caccctaaat aagtcttctt cgtctcatat ttcgataaat caaacaatct 240
caattttgat ctaatatata cacacaacat t 271

<210> 8024

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-D4

<400> 8024

ggtcaagaat taccgggtcg acgcacgcgt ccaccggcat aatccggcgg cataggctaa 60
gaaagggttc ctgcccgtcg tcgacaagaa ggctggctac tctttcctct acccggtcgg 120
atgggaggaa gtggctgtgc aagggaaga caaggtgtac aaagatgtga tagagcctct 180
cgagagtgtg agcgtcaact ctattccaac tagcaaggag gatatccgtg atcttgggtcc 240
tccggataag gttgccgagg ctctgattaa aaaggttttg gcaccatcaa cacagaagac 300
aaagttaatt gaggcgaaag agaatgatgt tgatgggagg gcttactaca cttttgagtt 360
cacagctcag gtcctaaact acaccagaca tgcacttggg gctattgtaa ttgcaaattg 420
caaattttac acattga 437

<210> 8025

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-D7

<400> 8025

attccccggc cgaccacgc gtccacggac gcgtgggtgc tcgatctcca tctcgaccgt 60
cgctcaccgg gaagctacgc tacgacgaag catggcgtcc gtcaccgccc gcgccccggg 120
cgcagccctg cgcccgtcgt cgctcgtcggc cttccttggc cactctagcc gcctcggccc 180

cactgctacc gcgtcgccga cgaggcgag cctaaaggcg gaggccaagg gcgagtggct 240
 cccgggcctt cctcccccg cctacctga cggcagcctg ccgggtgaca atggcttcga 300
 cccgttgggc ctggcgagg acccgagaa cctgaggtgg tacgtgcagg cggagctggt 360
 gaacgggcgg tgggcgatgc tgggcgtggc cgggatgctg atcccgagg tgcctgacaa 420
 gggcgggctg a 431

<210> 8026
 <211> 420
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-014-Q1-E1-E2

<400> 8026
 attaccgggt cgacgcacgc gtccagcaac accgcaatca gactctgcca tgtttttctt 60
 cataacaaat aagctcgggt ttactccaaa atttctagga cgcgttacgc ttgtcaaadc 120
 tgttgcattc ttactgggaa tcggagtgtg taatttgttt ctgaaggaag ttccattgag 180
 gaaaatcttt cttgtgacaa cagtcttagg ttctgtcttc ggaatgacac aggttcttct 240
 tgtcactggg ctcaaccgga agcttggcat aagcgacgaa tggttctcca ttggggattc 300
 tttgattatc acagtctcgc gccaggcttc ctttatgcct gtcttggtgt tggctgcaaa 360
 gttgtgccct gtgggagcgg aagcaacttt atttgccact ttgatgtcca tctctaacgc 420

<210> 8027
 <211> 309
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-014-Q1-E1-E4

<400> 8027
 gtcaagaatt cacgggtcga cgcacgcgtc cacggacacg tgggtgcgaa ttgggaagag 60
 agtttttagt tagacgagct tttgatggcc ctaaagatgt tttcccgat gatgtttgtg 120
 ctgctggacc gtttctgtt agcttcgatg gcatcctccc catatcgata aactgttgct 180
 taccctgaca atcggaagag tttaaatgtt aaagatttaa aaaaaataa aaaaaaaag 240
 ttctataaaa aaaaaggacg caagcagctc gaaaggaata aaacaaaaac tcgtctcca 300

tggtagatc

309

<210> 8028
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-F10

<400> 8028

gggtccaccca cgcgtccgac cagcgtccg gcatttactt atatacaacg agtcatgtag 60
ctgtgatgta acttcctcta acttgggtgcc atgtggactg gagtcaccga tgtgtgctgc 120
caagtgtctg gcccaaccgt tgaacacgtg gagagatgct ctccatatct ttagaggagg 180
atataagggtg atttgatgat ttatttatta agtgtttcta cctaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaccccc aaaaaaaaaa 360
aaaggggggg ccccccaaa ggtttcccc 389

<210> 8029
<211> 396
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-014-Q1-E1-F4

<400> 8029

attcacgggt cgacgcacgc gtccgcccac gcgtccgccc acgcgtccgc ccacgttcc 60
gcaagcagga ggcggacaag gtaagcagca atcccaggaa ccctaccgcc gccgaaccgc 120
caggaatggg tatcgacctc gtccccggtg ggaggaataa gaagaccaag cgactgcgc 180
ccaagtctga cgatgtctac ctcaagctcc tcgtcaagct ctaccgtttc ttggtcanga 240
ggaacaatag caatttcaac gctgtcattc tcaagaggct tttcatgagt aaaaccaacc 300
gaccaccaat ctccatgcgc cgccttgta agtttatgga aggaaaggag aagaacattg 360
ctgtcattgt tggcacagtc acagatgaca aaagga 396

<210> 8030

<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-F6

<400> 8030

taaaggtcta aaattcccg gccgaccac gcgtccaccc acgcgtccgg ccggcgccctc 60
ccacgtctcc agtccgacac tccgactcac tccccctccc ccgccccaac ccgtcgcaat 120
ggccgcccgtc tccgcagccc cgaggccctc gatgcctccc cgactcgccc tccgtgccc 180
cctcttctcc tccgcctctc cgctcccaat gcgcgcgctc cccttactcc gcagccgctt 240
ccgtctcttg accacggcct acgctgtcaa gcaggacacg gccctctgga cccctgcacc 300
cgtctccgcc atcagtgtg ccaccgacga cggctccgtc tccctcatcg ccgtcgacct 360
atctgacgcc acggacctcg tggactcgta cacgaaccgg ggccaatacc tcttgattcg 420
cgttaccggc gaggagctca agccggcgta catggtcac tcc 463

<210> 8031
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-G12

<400> 8031

aagctctctg ctagcaccca tcttgacgca ggccggagccg cccgaccga tccgtgcgtg 60
tgtgttggtg gagatggcta cagcagctta cgctcccatg gcgagccagg tgatgaagag 120
catcccgggtg cactcgaggc cgaggggcct gtcaggcgct gcgctcacgc ggccccggcc 180
ccggttcagc gtcgtcaagg ccgccatcca tcccagagaat gcaacgtacc agctgggtgca 240
gcccatcaac ggccgaccgt tcatcggcag cctggagacg cccgtcacct ccagcccgt 300
catcgctggtg tacctctcca acctgccggc ctaccgcacc gccgtgagcc cgctgctgctg 360
gggcgtccag gtcagcctcg ccca 384

<210> 8032
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-G6

<400> 8032

ttttgactaa tttctttctt tttcctcgag aaacatcata tcatttcacc cttatgtacc 60
tgacaatatt acactggagg taaacctagg cagtcaaggt acagggaaaa aaagaacaag 120
aaaccgtttg cttctttttc tttcccgttg cggttctagg gcacaacttc gcaagtgtcg 180
cagatatcca gccgacgaag gaggttaggc tatcggtgcc tcgccgggag cccaccgctg 240
ccgctcttgc ggatgaaagc gtttctgctc ttcggctttg gtatgtcatt gatgtccatc 300
acttggaattg tcctctgctt tttggcattt tgtgcttctt ggtaattctc cct 353

<210> 8033

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-G8

<400> 8033

ttccccgggcc gaccacgcg tccagatggc cagcctcacc gacctcgtca acctcgacct 60
gagtgactgc accgacagga tcacgcccga gtacatctgg attggaggat ccggcataga 120
cctcaggagc aaagcgagga cggtgaaagg ccccatcacc gaccgagcc agctgccgaa 180
atggaactac gacggctcca gcaccgggca agctcccga gaggacagcg aagtcacct 240
ctaccctcaa gccattttca aggaccggt caggaagggt aaccacatcc ttgtgatgtg 300
tgactgctac acgccacaag gcgagccaat cccaccaac aagaggtaca gcgccgc 357

<210> 8034

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-014-Q1-E1-G9

<400> 8034

ttccccgggtc caccacgcg tccgaactct cctcctccag agctcgtcgc caccggccac 60
cgccaccctc gatcacgccg tccgtcgagg taaggtcagc atggtgaggg tcagtgtgct 120
caacgatgcg ctcaagtcca tgtacaacgc tgagaagatc ggcaagaggc aggtcatgat 180

caggccgtcg tccaaggtca tcatcaagtt cctgacggtc atgcagcgcc acggctacat 240
 tggagagtgc gaggtagttg atgaccaccg atcgggcaag atcgtggtcg aactcaacgg 300
 gaggtgaac aagtgcggcg tcatcagccc tcgctttgat atcggcgtga aagacattga 360
 gggatggact gcaaggctgc tcccg 385

<210> 8035
 <211> 454
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB189-014-Q1-E1-H1
 <400> 8035

attcacgggt cgacgcacgc gtccgaggct gcagtatatt ctgtgagaat ggcattgggg 60
 caaggtgcta agagggtccat actagggtct ctctttcgtt ctcagcacca aactgctcgg 120
 gcatactctt cttcagcatt ccagactcac caattgagca ctcatgttcc ccaagatgga 180
 gtgtttatta ggagattcgg ctctgagggtg tcttcttcag agcaaatgaa ccttattaag 240
 caactcagac aaagaacgag tgctccaatc aaagatgtca aggcctctct agttacctgc 300
 aactgggata ttgaggctgc acagaaggac ctaaggaaga gaggtgttgc tcttgctgcc 360
 aaaaagtctt cacgcactgc tgctgaaggt ttgctagcta tcgcacaaga tgacaanaag 420
 gctgctgtag ttgagcttaa ctgtgaaact gatt 454

<210> 8036
 <211> 372
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-015-Q1-E1-A1
 <400> 8036

gaccacgcg tcaggactag ttctagatct gagttagccg gcggatccga tccgtgcgcg 60
 tgcagtgtgt gtgtgtgtgt gtcggtggag atggccacag cttacgtccc catggcgagc 120
 caggtgatga agagcagcct cgtcgtgcac tcgaggccga ggggcctgtc aggcgtgct 180
 gcgctcacga ggcggccccg ccggttcacc gtcaaggcca tccagcccga gaaggcaacg 240
 taccaagtgg tgcagcccat caacggcgac cccttcacg gcagcctgga gacgcgggtc 300

acctcgagcc cgctcgtggc gtggtacctc tccaacctcc cggcctaccg caccgcegtg 360
agcccgtgc tg 372

<210> 8037
<211> 227
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-015-Q1-E1-A2

<400> 8037

cggtcgagat ttccccgggc gaccacgcg tccacgccag tacgccacca ccaccgagcc 60
tggaactaccg ccgcgcgcct tcgccgatat cctcagcggc gaacagcggc caacagatcc 120
cgccccctgcg atggagtcgc tgggtgaaccc gaaagcatac ccgctggctg atgcgcagct 180
gacgatgggt accctcgata tcatccagca agccgccaac taaaaac 227

<210> 8038
<211> 183
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-015-Q1-E1-A3

<400> 8038

caaccaaccc tggaataaccg ccgcgcgcct tcgccgatat cttaccggc aaaaaccgcc 60
aacaaattcc cgcccttgca atgaattcgg ggggaaaccc aaaggcatta ccacatgcta 120
aaggcgaagc aaaagggcgg ccgccccaaa ggatccaagc ttacttacc ttgcatgcaa 180
ctt 183

<210> 8039
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-015-Q1-E1-A4

<400> 8039

cggtctagaa ttccccgggc gaccacgcg tcaggggcaa gggcaagggc gtgtaccagt 60
tcgtcgacaa gtacggcgcg aacgtcgacg gatacagccc aatctacaac gaggatgact 120

ggtctccac cggcgacgtc gacgtcgggtg gaaccactgg gcttctgac tgggccgtca 180
 ccctcgctgg gatcctcggc ggcgggcgccc tctcgtcta caacaccagc gccctctccg 240
 gctaaggata tccaatgcat gcgcttcttg cgattcgtcg tgtaaaatca ggtgtctgt 300
 ctataatcta gctccatgg atgtcaacc ttcgtcatgt aacaataatc agtgctactc 360
 ttc 363

<210> 8040
 <211> 296
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-015-Q1-E1-A6

<400> 8040
 ccaggtacca gtctagaatt cccggggccga cccacgcgtc aggaccccaa cttcttctga 60
 gcggccggct gcgggcatgt tcttgagcct gcctgtattc tactccgtgt gtgttgagcc 120
 atatatctga tgctcaagga ttggttaatt tgaacaagtg gtgcaactgc gcgtgtacat 180
 ggatttgctc ttcctctatg tctctgtcct ctgtctccgg ttactttccc tgtttcacta 240
 tgccatgcac atagacattg ccatgttctg ctgccagctc agggcttgtg aataac 296

<210> 8041
 <211> 106
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-015-Q1-E1-A7

<400> 8041
 cgggccgacc cacgagtcag cggacgcgtg ggcggacgcg tgggtttttt ttgtaaggta 60
 cctacaggtt tggatcatatg ataatttctc cggaacggca tacctt 106

<210> 8042
 <211> 401
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-015-Q1-E1-A8

<400> 8042

aattccccggg tcgacccacg catccgcttc aggttgccac ttacatactg tggaagaatg 60
 taccacaggg agctgcaact acttgctacg taggactgag ccctcaactc aagggagtga 120
 caggaaagta gtttgctgac tgcaacgtgg agaagacgag caaactggcg aggagcgagg 180
 agttggcgaa gcagctctgg gacttcagcg aggagctgat caagtctgcg aaatgagagc 240
 cgaaaatggt gtggctctgc ttggcatcta gtggtacaag tgatgactga ttagtatata 300
 gcacggagga acctgggcga tggctggacc tcatggtgtt caggaataaa atctgcttgc 360
 ttctgtacat taattagtcc ggtgtggcaa acatcaattt g 401

<210> 8043
 <211> 408
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-015-Q1-E1-B4
 <400> 8043

ggtcaagaaa tccccgggtcg accacgcgtc caccacgcg tccggagagg agctaccagg 60
 ctacacatcg gggttcgcac cacttcccaa ccggaacctt caaggcccga atcccgaacc 120
 tgttccgggc cccaaccgga aaggaaacct cgttttccaa tggggccccta accaagtacg 180
 aggtccaact tgtgctcgga tgttctcaga ctatctatcg gagaccaagg aggattcagg 240
 gataaagaac atcatggtac tggagcgcg gtttaacgga tgggaggttt cagggcagcc 300
 tgtctgcagc tgcaccgacg ctcatcgaa agggacttgt tcttaagcac acgagtttat 360
 atctctctta agccttgaac aaccaaggat cggcatggtc tccgtttc 408

<210> 8044
 <211> 376
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB189-015-Q1-E1-C3
 <400> 8044

cggtctagat atccccgggc gaccacgcg tccacacca cccaccact cgcttcagcc 60
 gcctccgccc cgcgtaacag caggtggaga caggatgccg gctggccacg gcctgcgctc 120

gcggacgcgc gacctcttcg cgcgccccctt ccgcaagaag ggctacatcc cgctcaacac 180
ctacctccgc acctacaaga tcggcgatta cgtcgatgtc aaggtgaacg gcgccgtcca 240
caangggatg ccgcacaagt tctaccacgg ncgcacgggt cgcgtctgga acgtcaccaa 300
gcgcgccatc ggcgtcgagg tcaacaagca ggtcaatggg cgcacatca ggaagcgtat 360
ccatgtccgt gtggag 376

<210> 8045
<211> 73
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-015-Q1-E1-C4
<400> 8045

cctaaaggat caaagcttac gtaccctgtc atgcaacgtc aaacccttc aaaagtgtca 60
ccaaaattca att 73

<210> 8046
<211> 450
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB189-015-Q1-E1-D3
<400> 8046

ggtctagaat tcncgggccc acccacgcgt cagcggacgc gtggggatct gtgacttcga 60
cttcgagccc tgtggctact ccatgaatgc tgttcatggc cctgctttgt cgaccattca 120
tgtgacccca gaggacggct tcagctatgc aagctacgag gtcatgggct tcaaccggg 180
ctctttctct tatggtgacc tggttaagag ggtgctgagg tgctttggtc caactgagtt 240
ctctgtcacc gtgaccatct tcggtgatcg ggacaatgcg aagacctggg ggacgaaact 300
ggatgctgag gcctatgctt gcagcaacat ggttgagcag gtgctgccgt ttggtggctt 360
gtcatctat cagagcttca ctgttacggc cgaaacgacc catgggttcg ccgaggtcag 420
tcttgcata ctctgctggg gacattgtca 450

<210> 8047
<211> 417



<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-015-Q1-E1-E1

<400> 8047

cggtctagaa ttccccgggcc gaccacgcg tcagcggacg cgtgggggtgc tcagttagga 60
actgcgcaa gttgccaacg tcgctcggtc cccccctag ttccagcata gatgagattg 120
gaggatgggg gacagtacca aactggagt cactaggccc cagtgttacg aagtctgaga 180
aaggaatgca tttcatagga ggagagagcg cagctcttgg tagggtagat gactacttct 240
ggaagaagga tcagctgaaa gattacaagg tgaccaggaa cggcatgtta ggtccagact 300
actccacaaa gttctctcct tggttgcct ctggcagcct ttccgccgct tatatttgcg 360
aagaggtgaa gagatatgag aagcaaagag tggcaaatga ttcaacatat tgggttt 417

<210> 8048
<211> 420
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-015-Q1-E1-E2

<400> 8048

cggtctagaa ttccccgggcc gaccacgcg tcagtcact gcagtcacac atcacacatc 60
ccatctttctg acatcccccc atctctctgc aaaactcgca caaccggctc ccaaactgcg 120
gtatccacat ctctccggct ccaacatgga ctctctcgac atctttcgca tgggtgaactt 180
cgccgtcgcc gccttcattg ttctcggcgg tgttgcgaaa ttgttccctt tcaacgattt 240
ctcgcacatc attcttggtg tctacctgat catcttcggc gctggcactg ctcttctcga 300
attccagatc cctccacaga tcgctcggtt tgctcgttc atgttctctt tctcggccg 360
cggtatcttt tacgttttta tcggttgcgt aactgtcggc tctggctggt atcgctacat 420

<210> 8049
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-015-Q1-E1-G5

<400> 8049

gtaccagtcc agaattcccg ggccgaccca cgcgtcaggg tatttgaacc atttgggcaa 60

gtagagcttg tacagcttcc tgtagatcca atgactggat tgtgcaaagg ttatgggtttt 120

attcagtttg cacggcttga agatgcaaaa gctgcacaga gcttgaatgg gcagcttgat 180

atcgctggca gagttattaa ggtttcaagc tgttacgatc atgtgggaat gcaagctagt 240

ggagcaacta ctggagaatt agatgacgat gaaggtggaa gcttggcact aaatgcaagt 300

tccagagctg ctctaagtct caaattggac aggagtggta ctgcgaacag cttaactggt 360

ggtattggtg 370

<210> 8050

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-015-Q1-E1-H1

<400> 8050

ccgggccgac ccacgcgtcc acggacgcgt gggtgcgctt ctacatttct tctctctctg 60

ctctctcccc tccgctgat tcatccaaga caaggattgc caagtccgac tcggaggaac 120

aacacttcga atccaaagcc caagcctggg cgtccaagac ctaccgcgag caggctggca 180

ccgtccgtaa gaacggcttc atcgatcatc agaaacgtcc ctgcaagggt gtggagggttt 240

ctacctcaa gactggtaag catggccacg ccaaagtcca ctttgtcgcc atagacatat 300

tcaatgggaa aaagcttgaa gatattgttc cttcatcaca caactgtgac attc 354

<210> 8051

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-015-Q1-E1-H6

<400> 8051

ggccgaccca cgcgtcagga gccgccgaca actctctcta ccgtccgata cccaagcac 60

cagcgcggcg gcggcgacca tggctgtcgg aaagaacaag aggatctcca agggaaagaa 120

gggtggcaag aaaaagaccg tcgacccttt ctctaagaag gattggtatg acatcaaggc 180

accgtcgggtg ttcagtgtgc gcaacatcgg gaagactctc gtatccagga cacagggtac 240
caggattgct tctgagggtc tgaagcacag agtctttgag gtttgcctag ctgatcttca 300
aggcgacgaa gatcaagctt acaggaaaat cagggtccgt gctg 344

<210> 8052
<211> 265
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-015-Q1-E1-H7
<400> 8052

caggtagcta tctagaattg ccgggccgac ccacgaatca gccacgcgt ccgcccacgc 60
gtccgcccac gcgtccgggg agcaatacca tagcccccg aaactgctgc tcgccatgat 120
cgctgaagtc cgagagctgt caaagctgtt catgtggaaa ggggaggtgc tcacgggctt 180
cacggactga gacgatgagg gcaacgagca tctcgactat gagctctccg acgtgctgct 240
ctatctggac cgctctccg acatg 265

<210> 8053
<211> 445
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-016-Q1-E1-A4
<400> 8053

ggtcctaaat taccgggtcc acccagcgt ccggcagcca gctacactgt gccaaaccgt 60
gctctctggc aggcatcatt tgatgctttc tttgggcttc taacaaaata ctgtgtcagt 120
aagtttgaaa gtatccaaca gatgtttgtc acacagacac cgagctcagg aatcggacct 180
gaggcttcca aagctactag taaggagatg cctgttgagc tacttcgtgc aagccttcct 240
catacaaacy agcagcagcg ccagcggtt cttgattttg ctcagagatc catgccagta 300
acaggtttca atccctcagg tgctagaggt gggcacatca cttcagaatc tgttcctgga 360
tgatgtaact gaaggagaca cacaaggga aagagtcaat gcttttaaac attgatgaga 420
tgggtctcag ctgataattg ttgta 445

<210> 8054

<211> 233
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-016-Q1-E1-A7

<400> 8054

gggtcgaccc acgagtcgga ttgggtcctg cctaggcccc atagatatag ctcttttttg 60
agaaggaaga gagattaatt cagcagcagc ttttataaat tctttgttgt catgaagcag 120
gtggttcctt tgtagttgat gaaagggatt tgtcgtcgct atcgtttaca taattcagac 180
aataatttta tattgtgtaa ttctgagaat caaagcactg tttgtgttat agc 233

<210> 8055
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-016-Q1-E1-B1

<400> 8055

ggtcgacgca cgcgtccgac cagcgtccg cccacgcgtc cgcccacgcg tccgcacaca 60
tgcatagttt cttctactac acgacgacaa acatggggaa gcctgcgaag atcggagagt 120
ggggtggata cgccggcgat cgtcgggatc tgagggctac tccggaccgg ctgatcgagg 180
tgaaggtcac ggcggacaa acgagctgca tccgctccat ctcttctatc tacatcggag 240
ccgatggcaa accgtacgaa gagggggccat ggggtttcgg ccacgctggc acggagtaca 300
agattgatct gtgcaggttc gacgagagct tgacggagat ctccggggacc acggggcccag 360
cctacaacat tgacaatctg gtcaagtctc ccaa 395

<210> 8056
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-016-Q1-E1-B2

<400> 8056

gtacggtcct acattcacgg gtcgacgcac gcgtccgagg acgcgtgggt cagattcaga 60
tcagatcgta gcagccaagg attccgcgct ccgggggtgc catgaagctg aagctcctct 120

ctccctgcct tctctctctc gccttctttg ccaccgcggc gtacgcggcg tcggggtcgc 180
 gcgcggcggc cgtcgtcagg ggcgcggggc ccctgtcgca gtcggagttg gagttcggac 240
 cggagaacca gtgcgtgtac acggtgtacg tgcggacggg gtccatctgg aagggcggca 300
 cggactcgac catcggcgtg acgctgctgg gcgccgaccg cacgggcatc gggatccggg 360
 acctggcccg gtggggccgc ctcatgggcg ccgggcacga 400

<210> 8057
 <211> 302
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-016-Q1-E1-B3
 <400> 8057

cggttcgacg cccgcgtccg aaccatacca gaccagacca gaccaatggc cctgcgccta 60
 ccaatctcat cgtcccacgg gctggcctcc acgccggcgc caatctccac gacgacgtgc 120
 cggccggccg tcttggcgac agccgcggcc cagaagagga gcctgctgcc ggcgactgcc 180
 tccgagacga ggggagtcgc gccggtgagg tccagcggga tcgagacgag cacggtgggt 240
 ctgggatgtg aggccgtcac cgggcaggtc acggaggtca acaaggacac cttctggccc 300
 at 302

<210> 8058
 <211> 471
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-016-Q1-E1-B4
 <400> 8058

gtgcggtcgt aaattcacgg gtcgcagcac gcgtccgacc acgcgtccga atattttgag 60
 cattcagaaa cacaccaagc gaagcacatt agcaacaacc taacaacaat ggctaccaag 120
 atattatccc tccttgcgct tcttgcgctt tttgcgagcg caacaaatgc gttcagtatt 180
 ccacaatgct cacttgcctc aagttccatt attacacagt tcctcccacc agttacttca 240
 atgggcttcg aacacccagc tgtgcaagcc tataggctac aacaagcaat tgcggcgagc 300
 gtcttacaac aaccaatttc ccagttgcaa caacaatcct tggcacatct aacaatacaa 360

accatcgcaa cgcaacagca acaacaattc ctaccagcac tgagccacct agccatggtg 420
aaccctgccg cctacttgca acagcagttg cttgcatcaa acccacttgc t 471

<210> 8059
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-016-Q1-E1-B8

<400> 8059

cggttcgacc cacgagtcgc aggacgcgtg ggccgacgcg tgggcggacg cgtgggcgga 60
cggttggggc acaaccccg cggaaggag cgttacgagc gcgagttccg cgagctcgca 120
aagggcgccg gcttctccg gttcaaggcc agggacatct acgccaacgc ctgggccatc 180
gagttcatca agtgaaccac cgtcgccgcg atgagatggc atggctgcca catgctttgc 240
ttgcttggtc ctcgtatcgt acgtcgccgt cgtcgtcttc ttctggttat tgcgctgcta 300
cctcgctgct ctcgcgtatg catgtacttt tgcctaactt tctttcttca taacatgcac 360
tctggctggc ctgactgcc cccgattcat ggtggccggt acgtcttgc gagctcttgc 420
atgt 424

<210> 8060
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-016-Q1-E1-C1

<400> 8060

cggttcgacg cacgcgtccg aaactcaagc cctttgggaa gcagctcagg gacaaatagc 60
tggagacaca gcagcttctc ctccagatcg ctgggcacaa ggatattctt gaaggcgatc 120
cattcctgaa gcaggggctg gtgctgcgca acccctacat caccacctg aacgtgttcc 180
aggcctacac gctgaagcgg ataagggacc ccaacttcaa ggtgacgcc cagccgccgc 240
tgtccaagga gttcgccgac gagaacaagc ccgccggact ggtcaagctg aaccggcgca 300
gcgagtacc gcccgccctg gaagacacgc tcctcctc 338

<210> 8061

<211> 292
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-016-Q1-E1-C2

 <400> 8061

 cgcacgcgtc cgaacacaac gagaaatgat agcgtcctga tcgtcgccct catcggcacc 60
 caacaccgcc tcgggcacat gattcggcac cttgacgac ggaagggagc tgcactcgcc 120
 atgtacgtcc ctcttctgcy caactcccgc gtcgacactc ttcacagggc ccaagcctga 180
 acgctgtagc catagccgcy atcgacata cagcgtcacc tcccaccttg cgggtgctgca 240
 cgatctcccc caaggtcaga ggcccaaca tctggaaaga cttaaccag ct 292

<210> 8062
 <211> 385
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-016-Q1-E1-C3

 <400> 8062

 gggctgacgc acgcgtccgt tccaagttaa cgtctgagaa tgcattcttg ctgaagcgac 60
 tggctgatat gactcagaaa tacaaggacg cttccgttga caataaaaat ctaacagttg 120
 atgttgagac tatgaggaga aagggttcgtt cgtcttgaat gcatcacaga cttttttctt 180
 ctttttggtg tacgagagct cttaactgca tccatttatc gatcataaca tttttactgg 240
 gctctgcgta tactcacggt aatcaacggt tacatctctc tagatggctg caaagggcag 300
 tgaaagtaat atgattgctc atagttctta ttttagaacc tgcaagtaca gttttagttt 360
 ccaatgggtt ttaactgcac ccaaa 385

<210> 8063
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB189-016-Q1-E1-D1

 <400> 8063

 cggtcctaaa ttaccggggtc gacgcacgcy tccgacagcc accagaggat ctgaattcta 60

atccggtggtt tgctgccatc aaatcaaagg tcacagataa cctgaccaag catgcttctc 120
ctgagacccg atctacacca ggtcaaccat gggtagagg atgggacgac ataaagaaag 180
gcaaagatgg acccaagtat ggaaatcagt gataagctgc ttgaaatggg gatgacggct 240
ttccatccta aataatagct gtccgcccac cccaccccc aatatgcttg ttttgtgatt 300
gtgtagaata nagtgaactg ccaccggcat gtgtgaagtt tgttaaattg tagaatcagc 360
ttgtaactat ggatggtact cctgatgttt gcctggcaat tccagccttc caggtatcgt 420
ctaa 424

<210> 8064
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-016-Q1-E1-D2

<400> 8064

cggtcctaaa ttaccgggtc gagccacgcg tccgaatgca agcaacagga aacggatttc 60
ggagtcgccc cttcactgta gactggccac tagttgttca cagcccgagc gtggctggat 120
tctagaaaatt ggaaacccca ctaccttggt gtcattgctgt gtgacacacg tagtaciaag 180
gtcgtcttga acaacatgac tgcacatgca gcagagagga tatttcgtga cctgaaaatg 240
tcagcatctg ctgttctgta ctgtgcctca ttggcgtaa cagtgcatag gtatttgaca 300
tgcataaatg accgtgcaag tatttgactt agactgacga agacttgtag gacggcattt 360
catttaggaa aataagaaac tccaaacaga gttgaaggaa aa 402

<210> 8065
<211> 433
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-016-Q1-E1-D3

<400> 8065

ggtcctaaat taccgggtcg acgcacgcgt ccgtacaggt tcctgggttca accacatata 60
gcttagcttt gtattatatg atggatacac cattataaaa ggtccctctg cttgaaagat 120

ttgtaaatgg agatgatgca ttcagaaatt caaggttcaa gctcattcct tacatctcaa 180
 agggatcttg gattgttaaa cagagtgtgg gcaagaaagc ttgcttggtt ggacaagcat 240
 tagaaatcaa ttattttcgt ggaagaaact atttgagct tggagttgat attggttcat 300
 caaccgtggc acgaggtgtg gtgagcctag tgcttggtta cttgaacaat cttgtgatcg 360
 aaatggcctt tcttgtacan ggaaacacat ataaagaact ccggaattcc tcctaagtac 420
 ctgccgactg aat 433

<210> 8066
 <211> 460
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-016-Q1-E1-E4

<400> 8066
 gggtcgacgc acgcgtccga ccacgcgtcc gcagaatctg agatatctgg acacaaacct 60
 ggagatcatg tgtggacagc agggagcact gcctatgggtt gagaagttga catgccgtgc 120
 cagcatgggg aagtatgttg ccttcgccag gagcagcatg cctttcgacg atggcagcgt 180
 ggtgaatcct gctgctgttg ctgaggcaga attgccagta attctacctt tggacattgg 240
 ctggcccgtg aacatgcctt gcctccgggg catcacctat ttgctggact accaggactg 300
 cagtgccaa gagtgggctc atgtggagac attgctcatg cacgtgagaa aaatccaccc 360
 caactgtcca cccttccgaa tcaaaaagaa ccgcagagac aaggagatta ctatgatcga 420
 cgcaatcatc taccttgaag atgtcaagga tgtgttcaag 460

<210> 8067
 <211> 321
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-016-Q1-E1-E5

<400> 8067
 tctgctttag gccgtttgaa aaaaaagaca agtacatgga tatgtacttg ctttgccatt 60
 ttggatccta gatgatgttg ttcagggtga gaattgagat aatcagaagg aatgtatagc 120
 ttctgctagt agttttccaa gtcaggaggt tgtctataac tttgatttct gcaactgaat 180

cccaagtgtg gaactgcaaa ttgctgaaaa gtttagactg ttttaaggtgg ttatataaat 240
tgctgccctg caagtttctg caaagcaatt aaggctttgt tcatccttcg aaatatggga 300
attttatgtt ttgtgaaaaa t 321

<210> 8068
<211> 272
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-016-Q1-E1-F1

<400> 8068

ggtcgagcac gcgctccgacg ggtgcaggac caggctcgcg gaagaccgcc tgtcccgtt 60
cgagaagcag tagcagctct agataaagct attagttagc acaggatcga ccatatgtat 120

gcttctgtat gtcagttgtc ttcgcatgca tatgggctt tataacgtgc tagctcgtgt 180
cgtacgtaca cgtgtatgca cgcattggtgc accacacatg aatggtgtcg tcaccaata 240
tcacccacg tttctttaa aaaaaaaga at 272

<210> 8069
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-016-Q1-E1-F3

<400> 8069

cacgcgtccg acacatacat agtttcttct actacacgac gacaaacatg gggaagcctg 60
cgaagatcgg agagtggggt ggatacgccg gcgatcgctg ggatctgagg gctactccgg 120
accggctgat cgagggtgaag gtcacggggg acaacagcag ctgcatccgc tccatctcct 180
tcactacat cggagccgat ggcaaaccgt acgatgaggg gccatggggt ttcggccacg 240
ctggcacgga gtacaagatt gatctgtgca cgttcgacga gagcttgacg gagatctccg 300
ggaccacggg ccagcctac aacattgaca atctggtcaa atctctcaca atcgtcacca 360
acaaacgcgc tta 373

<210> 8070
<211> 57
<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-016-Q1-E1-F4

<400> 8070

gcgtccgacc acacgtccgc ccacgcgtcc gccacgcacat ccgcccacgc atccaag 57

<210> 8071

<211> 257

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-016-Q1-E1-F6

<400> 8071

aatgcccggg tcgaccacg agtccgaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

aaaaagaaaa ggaaaaaaaa aaaaaaaaaat aaaaagatta catacacatc aataaaaaaga 120

taaaaattct tcgagatggt cacaaaaactt taaattcatt gtcgtgagtt attaaaaactt 180

tgtgactgga aataccctgt cgtagccat cttaatctcc ttgcattact tacccttttc 240

gctatccagc gtaatat 257

<210> 8072

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-016-Q1-E1-F8

<400> 8072

aatgcccggg tcgaccacg catccgcgga cgcgtgggct ctatcgagcc gtgaaaaaga 60

ttcaacaaaa gacagaaaca aatccactat tggttttacg tcaagcaata cgtagagtaa 120

ctcccaatat aggagtaaaa acaagacgta ataaaaaagg atcgacgcgg aaagctccga 180

ttgaaatagg atctaaacaa ggaagagcac ttgccattcg ttggttatta gaagcatccc 240

aaaagcgtcc gggtcgaaat atggctttca aattaagttc cgaattagta gatgctgcc 300

aagggagtgg gggtgccata cgcaaaaagg aagcgactca tagaatggca gaggcaaata 360

gagctcttgc acattttcgt taatccatga acagaatcta ggtatgtaga cacatggatc 420

catacatctc gatcggaaaa gaatcaata 449

<210> 8073
<211> 239
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-016-Q1-E1-G1

<400> 8073

ctggactggc taggactggt atgattagat ggcctatcaa taaagcaaca ccgcttactg 60
ctgacaatcc tctattgaca aatgccaaatt tatgtcgcgc aaccaatagc gatataagcg 120
aaaaataagc cctgaaaccg gaccaggcta aatgtgaatt ctgccgaacg atagggacga 180
aacagaaatt taagaagtaa tatacgctc agttcgttag cctgtgcca agatcacag 239

<210> 8074
<211> 181
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-016-Q1-E1-G2

<400> 8074

gcgtccgatg agaggctaac ctgagcccgaga cagaaccggc ttggtcgatt tggaacctgg 60
taaggcccggt tatttttttt attgaaagt taactttcta aattaggtcc tgttggtttg 120
cgttggtattg cgtccggaat cgtttcaagg tttatataaa ttagagaagc aatccggtta 180
g 181

<210> 8075
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-016-Q1-E1-G4

<400> 8075

cgtccgacca tagatgtgta tcttgctgga acggtcatgt tgatatttgg gatgggtctc 60
tacggtcctt tcgtcagcaa cccttcctgt ggtgttcgtc ctgaatccga ccgtgcactg 120
agcggatcgt tgctgttcgg gatgttcgt ttgaaggaac gccccaaagt gatgaagatc 180
acctccctcg acgagctgaa gacaatagt gggcacgtca tcgtgatgat cctgctggtg 240

aagatgttcg agaggagcaa gatggtgaca atcgccacgg ggctggacct cctcagctac 300
 tcgatctgca tcttcttgtc gtctgcctct ctctacatcc tgcataacct ccacaagggc 360
 gacgaccatg aggagtgagg agagtgcaat aatataatgc ccaatctgta actctatgac 420
 agaagagata atggtaaggc ttgggt 446

<210> 8076
 <211> 378
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB189-016-Q1-E1-H2
 <400> 8076

ggtcgacgca cgcgtccgac cagagtcg cagctcccc cgcaaaaacc ctagctttac 60
 ctccccacaa ggcctccaa gatgaagctc gtcaggttct tgatgaagct gaacaacgaa 120
 acggtgacca tcgagcttaa gaacggcacc gtcgtacagn gaaccattac cggtgttgac 180
 atcagcatga atactcatct gaagactgtg aagctgacac taaaagggaa aaatcctggt 240
 acccttgatc accttagtgt gaggggaaac aacatccgct attatattcct tcctgacagc 300
 ctaaacctgg agactttgct ggttgaggaa acaccaaggg tcaagcctaa gaagcctact 360
 tctgggaagc ccttgggc 378

<210> 8077
 <211> 305
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-016-Q1-E1-H6
 <400> 8077

cgggtcgacc cagcagctcc gccacgcgt ccggcaggag ctggctctac ccatttttct 60
 ggtggtgtaa ggtttcattg caaccggacc aaggattacg taatggtagc aggtagcatg 120
 atacaagtga aaacgatggc tgttttttta aatagggaga gtctcgctct ccagctgtgg 180
 tgaagattgt atatatgctc gtgttgctt attaataatt attattgtgc ggttgcttct 240
 tgaggaaaaa aacaacaaaa agaaacaaag ttcataaata aaaaacggga agcttatcaa 300
 caagc 305

<210> 8078
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-017-Q1-E1-A10

<400> 8078

ggctctagaat taccggggccg acgcacgcgt ccgcgcctcc gcttggtctc gctctcgctg 60
cattcgtctt ccccgcccggt ccgtccgccc gctgatctca gatccagacc aaacgaactc 120
cacactaccc tctgcccagc tcgcgcacgc atgaaaccct agtgaccccg tccagatctc 180
ggcgtccgga tcaactgcgcg gcgcgcgcat ggcgcccccc gcgctggact ctctcccggc 240
gccgctccgg tcgctgcggc tcaagacgaa gcagcaggag ctctgtctcc gcgtctcggc 300
gctggcgctc atctacgtgc tcgccttcgc cgccgcctc ttctccgtcc tccgctacga 360
gtccatgata cacgagttcg acccttactt caactac 397

<210> 8079
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-017-Q1-E1-A11

<400> 8079

tccggggccga cccacgcgtc gaggaagca aacgcctcct tgagatgggt tataaaaacc 60
ctgttcttct gctccatcca ctgggaggat tcacaaaagc agatgatgtg cctcttagtt 120
ggagaatgaa gcaacatgag aaggttcttg aggaagggtg cctcaacca gaatcaactg 180
ttgttgcat cttccccctc cctatgcatt atgctggggc aactgagggt caatggcatg 240
ctaaggctcg tattaatgct ggcgcaaatt tctatatcgt tggaagggat cctgctggta 300
tgagccaccc cacagagaaa agggacctct atgatgctga tcacggaaag aaggttttga 360
gcatggctcc t 371

<210> 8080
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-017-Q1-E1-A12

<400> 8080

gctgccaggc cggcacaaga ttagcgggtc gagcacgcgt ccggacttcg tgcacctctt 60
gctgtcgtcg cagaaagact acggtctcac cacggataac atcaagggca tacttgtgaa 120
catgttcgaa gcagccatcg agacatcatt cctgggtgctg gagtactcca tgagcgagct 180
gatgaacaac cgccacgtcc tggccaagct ccagaaggag gtgaggacgg cgacgcccga 240
cggccgcatg gtgatggagg aggacctgag ccggatgccca tacctgaagg ccaccatcaa 300
ggagtccatg cgcattccacc cgccggcgcc gttccctcct gccgcacttc tccacccacg 360
actgcgagat caacggctac accatccccg ccggcacgcg cgtcatcgtc aacgcgtggg 420

cgctc

425

<210> 8081

<211> 295

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-017-Q1-E1-A7

<400> 8081

cccacgcgtc cgcccacgcg tccgagccct gctaccttct tgatacaacc acagttgttg 60
ccgttctacc agcacgtgc gcctaacgct ggcacctctt tacaactgca acaattgctg 120
ccattcaacc aacttgcttt gacaaacca gcagcgttct accaacaacc catcattggt 180
ggtgccctct tttagatttc ttatgagtta tagttcaata ataaagtttt ttgtctgatg 240
tttgtggctt cccagaaata agaaagtaca tttctagatt aaaaaaaaaa agaaa 295

<210> 8082

<211> 74

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-017-Q1-E1-A9

<400> 8082

cccacgcgtc cgcccacgcg tccgcccacg cgtccgcccc cgcgtccgcc cacgcgtccg 60
cccacgcgtc cgac 74

<210> 8083
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-017-Q1-E1-B10

<400> 8083

gggtcgacgc acgcgtccaa tttacaacag tcgggaatga tttgacgttt caaccgaatc 60
ctaattctgt atatcaaact gagcacctct catactttaa atttgctgga cgagtgggtg 120
gcaaagctct cttcgatggg cagcttttag atgctcattt tactagatct ttctacaaac 180
acatacttgg tgtcagggtt acgtaccatg acattgaagc tatcgatcct gcatactaca 240
agaatttgaa atggatgctc gagaatgaca taagtgatgt tttggatctc accttcagca 300
tggatgcaga cgaagagaaa ctgatattgt acgagaaggc agaggtcact gattgtgagt 360
tgattcctga agggcgtaac atcagggtta ctg 393

<210> 8084
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-017-Q1-E1-B11

<400> 8084

ggtcgagcca cgcgtccgcg gacacgtggg cggacgcgtg ggcccacgcg tccgcggacg 60
cgtgggagcg gacgaggcca agaggtaga gcaggagatg atggagtctg ggacggcgctc 120
gccggagtac gtgatcgctg cggccgctgc gctgctcaac ctcgtgtgcc tggcagggat 180
ggcggcggca ctggatgtgt tcttcgtcca ggctcgtctc tgcgggggtgc tgggtgctcct 240
caacgtcccg gtctatgaag ccatgttcgt caggaaggac agggggagga tgccgttccc 300
gatcacgcta gcctccgttg gctttgtgac gctggccctc attgtgccat tcttttgact 360
ttgagggtgcc aataatacgt gtacgggcac acgcacg 397

<210> 8085
<211> 390
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-017-Q1-E1-B2

<400> 8085

gacccacgcg tccacccacg cgtccggccg acttcttcgt cggcgacgcc gactcgccca 60
acaactaccc caacggcggc ctctctacg tccgctctc gcccgccacg gtgggttct 120
accgccactg gcaggcgtcg cgcgcgcggt tcccgggcca ccacgagcag tacgtcttcg 180
acaggatcgt caaggaaggg tacgccggcg cccgggtgca gttcctggac acggccgtct 240
tcgggggctt ctgccagcac ggcgacgacc tgngcagggt ggccaccatg cagcccaact 300
gctgcgtggg gctggacaac aagctcttcg acctcaagaa cgtgctacag gactggaaga 360
cctacagagc gcgcgccgcc gctggcaacg 390

<210> 8086
<211> 253
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-017-Q1-E1-B3

<400> 8086

aaaggctctg ttaataatgc catcttacta gtttaattgg tattaactca aagtctcaaa 60
cgtgcctctt gttgcattga cacacatgta caatacaatc gtacatatag tacgttttat 120
tcgacaagca gcctctgcat gcaataatag tacaaccccc gatttaatta attggactaa 180
tgcatgctga ggatggatca gatggaaatg ctgctgggga tgcccctccc ggtgactccc 240
ggcttgaaaa aag 253

<210> 8087
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-017-Q1-E1-B5

<400> 8087

gggccgaccc acgcgtccac cgactgctcg aaagcgcagt cactggccat tccatgccca 60
cgactgcagt gcctactacc ggacccggat gccgggggtc accgccggat ctgcgtctgt 120

ctagctcaat agccatgggt cacagcgccc cgaagcgact gggcgtatcg aagccgtcgt 180
 ggatcgttcg cactgagtca aacgtgagga tggagagagc aaaacgacct gatcctcctt 240
 gcaccatctg caaaggctca gggataatat actgccgcaa ctgcttttgt cgacgaagaa 300
 cataccatgc cgatgtggcc atgcgtccga actgtgaatg gccacaatgg tgtcaaattt 360
 gtggtggtac tggactggat tactgcct 388

<210> 8088
 <211> 208
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-017-Q1-E1-C12
 <400> 8088

accacgcgt cgcgccacgc gtccgtgggt tatctagtgt ctctgccatt gcccatggat 60
 ggtactgtct ttcaaagtat ttgtatgggt tgtgtcgtga gtcgtgactg agctggtttc 120
 atggaccagt tgtgttctcg ttacccaaaa ctatcgtgcg accgcatatg gcttaatcat 180
 gaataaatgt tgtgtttgaa tttaaaaa 208

<210> 8089
 <211> 85
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-017-Q1-E1-C2
 <400> 8089

agaaaaaaaa aaaaaaaag aaaaaataaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 aaaaaaaaaa aaaaaaaac aaat 85

<210> 8090
 <211> 365
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-017-Q1-E1-D10
 <400> 8090

gcgtccggt tggcgagtgt gaacttatcg gcacatgcat actggacccc agatccaact 60

ttcagaagct atttaaacta cggagctggc attagtgagg tggaaattga tgtgctgaca 120
ggagcaacaa caattctaag gagtgacctt gtctacgatt gcgggcaaag cttgaaccct 180
gctgtcgact tgggccaggt ggaaggcgca ttcattcaag gagtaggctt ctttacaac 240
gaggagtaca caacaaactc tgaggggttg gtcattccacg atggcacatg gacgtacaag 300
atccccacag tcgacaccat cccaaagcag ttgaacgttg agctgattaa cagcgcccg 360
gacca 365

<210> 8091
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-017-Q1-E1-D12

<400> 8091
atcttcaca gagaggcaga cggcaggact cgcttcaagc tcctcatctc gcgcaggggg 60
ggtcgcctga gatcacagcg acaatggtga aggcagttgc tgcctcgcc ggcactgatg 120
tcaagggcac catcttcttt tcacaggagg gggatggtcc gaccaccgtg actggaagta 180
tctctggcct caagccaggg ctccatgggt tccatgtgca cgcgcttggc gacaccacca 240
acggctgcat gtcgactggg ccacacttca atcctgttgg caaggagcat ggcgcaccgg 300
aagatgagga ccgccatgcc ggtgatcttg ggaatgtgac agcgggagaa gatggtgttg 360
ttaat 365

<210> 8092
<211> 423
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-017-Q1-E1-D4

<400> 8092
ggccgaccca cgcgtccacg gacgcgtggg cgggcatcaa gatcacgttc gagaagacga 60
cgggtgaagac caagggaac ctgtcgagc ttcctccgct ggaggtgccc cgcattcccg 120
acaacctccg gccgccgtcc aacaccggga gcggcgagtt cgaggtgacc tacctcgacg 180
acgacacgcg cgtcaccgcg ggggacaggg gggagctcag ggtgtttgtc atcgcggtgac 240

ctgatcgcgc ttgcggcgcc gttctgctgg tccgtgagat tgccatcctt cttcctccct 300
gttgctccag tagatttggt ggtttcttcg tctgaccaat gtataccgtt ctgttcttcc 360
gtgaactgaa tctgcgatta acttagtaac tatcttgtgt ggtttaaaaa aaaanaanan 420
aaa 423

<210> 8093
<211> 437
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-017-Q1-E1-E10
<400> 8093

cgggccgagc cacgcgtcca cccacgcgtc cgcccacgcg tccggcttga tctcctccg 60
ccactccatc catctcctcg ctcccagtc cgggaagca tggcgctcgt caccgcccgc 120
gccccggtag cggcccttcg cccgtcgtcg gcacgcgtca agtcgtcgtc ggccttcctt 180
ggccactcta gccgcctcgg ccgcaccgcg tctcccacga ggcgagcct caaggcggat 240
gccaagggcg agtggtccc cggccttccc tccccctcct acctcgacgg cagcctggcg 300
ggtgacaatg gcttcgacct gttgggcctg gcggatgacc ccgagaacct gcggtggttc 360
gtgcaggcgg agctggtgaa cggccggtgg gccatgcttg gccttgcccg gaatcctaac 420
cccggaggtg ctgacca 437

<210> 8094
<211> 387
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-017-Q1-E1-E2
<400> 8094

gaccacgcg tccagagacg gaaagccagg tgaatccgaa gcagctcccc ttgcatttgt 60
tgatgaaaca gctccccatg taattattgg tgaagagaag aaagaggaaa atactgagaa 120
tgagaacagt caggcagccg aatctgccgt gccttccttg gcacttttag agggagagaa 180
gaaagagaat ggtggtgccc ctgaacaacc agcctgcct gtagctgaga cgaaggcaga 240
tgctcctccg gcagaggcag aaaagggggc tgaaaattca ggccagccga ataccggctc 300

tcaagaaccg aaggcagcaa actgcgacga ggggcagatt caacctggtg cctctgctgt 360
gaggtgcaca taaggagct tgatctc 387

<210> 8095
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-017-Q1-E1-E3

<400> 8095

ggtccagaat acccgggccg acccacgcgt ccagtcattt ttctgtctct ccctctcatt 60
gccgcgtcac gcacagccgc cgccgtcgtg cgcggtgtgcc ggaacggccg cgtggatcct 120
ccgccccgtc ccagcggcga cttgtccgtg cgaagatgct ggggttctcg accggacagc 180
tgctggctgt cctcggggcc tgctccgtca tgatgaagcc cagtgatatt gtgaagattg 240
cgaggacggc cgggcgggat actggaagag cgggtggggc gctcatagt gctcggccgc 300
agctggacga gattctgggc cagtctgcag ccaccaggt tcataaggag cttaaagacg 360
ctatgacaca attagactcg atccgttatg aagtccagaa cttatcaaga 410

<210> 8096
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-017-Q1-E1-F10

<400> 8096

attaccgggt cgacgcacgc gtcaaccac gcgtccgggg gaactcaagt gtggagccat 60
atatagcagc tcataacatg ctactggcac atgcatcagc taccagactg tacagagaaa 120
aataccaagc tgtgcaaaaa ggagttgttg gtataaatat atatacaatg tggtcatacc 180
cactaacaaa ctccactgcc gatttagaag caactcaaag atttctggac ttctattccg 240
gctggatact agaaccattg gtgtttggag attatccaag cgtaatgaag aagaatgttg 300
gttctcgctt tccgtcattc agtaaagttc aatctgaagc cattcgtggc actctagatt 360
tcattggaat aaaccactat tattctttct atgtgaac 398

<210> 8097
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-017-Q1-E1-F12

<400> 8097

cggtctagaa ttaccgggtc gacgcacgcg tccgagagag ccagagaggt gggcagatgg 60
cgacaccgtc gtcgtcgctt tgctccagct tcgcctccct gcggaccgcc tccatcggcc 120
acccccgcgg catcgcgctca tctacgcccga ggaaggcggtt ccaagtgagg gcatcagctc 180
gggttgacaa gttctcaaag agtgatatca ttgtgtcccc ttcgattctg tctgcaaact 240
tcgccaagct tggatgatcag gtaaaagccg tggaggtggc aggatgtgac tggattcatg 300
tcgatgtcat ggacggggcg tttgtgccaa atatcacaat tggacctttg gttgttgatg 360
ctctgcgtcc tgtgactgat ctccattgg atgtacatct gatgattgt 409

<210> 8098
<211> 455
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-017-Q1-E1-F2

<400> 8098

gggccgaccc acgcgctccag ctcccttttc cccgcacggc ggagttcaca atccccaccg 60
gccggcggtan cggatattgc gagttacgac ggggaaggag aggaagatcc gtcgatccgc 120
gcagattcgt ttcgatcgtg gtttggtgac ttggttaagag gggaggggag aagcggcgat 180
gtcgggctg ttcggcaggg tggtcgggaa gtccaaggag cagagccagg cgaccgctg 240
ggcctcgctc gacaagctca acgagacact tgaaatgttg gaaaagaagg aaaacttgct 300
agtgaaaaag gccaatcttg aggtcgagaa ggctaagaat tttaccaaag ccaagaataa 360
aagagccgca atacagtgtg tgaagaggaa aagactatac gagcaacaga ttgagcagct 420
tgaaaattcc agcttaggat acatgatcag atgat 455

<210> 8099
<211> 404
<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-017-Q1-E1-F4

<400> 8099

ggtccagaat accccgggcc gaccaacgct tcgaccaaag cttcggcttc atcacaaacc 60
gcacattgga aatcttcccc aatttggatg gcttggccag ggacattgaa aggtcccacc 120
caccattaaa tttgtgaagg aatttcgtaa acggtacttc acccccgggt tcggtccttg 180
gttcggttgt tcacatgaaa caggaaaatt ttgacaaggt cattaatcct gtatccgttg 240
cacatttccc aaagttacaa gtaatttgat ttgcaactca agaagcttga aggtattggt 300
ttccagacat gctttcccag tgagattggt aactcaacac aagatttggt actggaaagc 360
aagatattga tgggacacaa gtgcacatcc ctgatcaga ctga 404

<210> 8100

<211> 406

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB189-017-Q1-E1-F9

<400> 8100

ggtctacaat taccggggccg acgcacgcgt ccaccacgc gtccgcccac gcgtccgccc 60
acgcgtccgc ccacgcgtcc ggtcgaacca gggacgcgt ccttctccg tttctttcag 120
ccacctccgc cgctggtgga gctacgtttc tgtgogatcc tcgtcctctg gggccggaag 180
ccagtcaagc gttgcggatg aaccagaggc tgcagaatgg gccttgcagg atttctacat 240
tttgcggaag gatgttgagt tggctcttga gcgtgtcaat gaagtcaggc agtctgccgg 300
tttgcaacag ctgaggagg atatcgcttc gcttgagaac aagtcagtg atagttcctt 360
atgggatgat ccttccaagg cacanggat acttgtttct ctgaca 406

<210> 8101

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-017-Q1-E1-G10

<400> 8101

gggccgacgc acgcgtccag gtgaacctct ggtgcagcag gggcagggac gccgtgggca 60
 agatttgctt cgcactggag ccgctgcgcc tccgggtcgt cacggccacc atcaccgcgc 120
 gcggcgacac tgtcttccac acactgttcg tggagacagg agaaacaggt ggcgctcggc 180
 taaaggaggc gatactgggt gctctcgctc ggctcaacgt cctcgctaac gctgaccaag 240
 tcgtccatga gttactggga tgattgatgc ggtggcatct tggacagcaa cacctggtgt 300
 tgttgctggt gtcagcactc tcgactgtcc gattcaataa tgatgtacct caggaatggt 360
 tgaatatgat atcattgcca 380

<210> 8102
 <211> 393
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB189-017-Q1-E1-G11
 <400> 8102

gggccgaccc acgcgtccac ggacgcgtgg gcggacgcgt gggcggacgc gtggggccaag 60
 tcggcgctccc aggacgatct caagaaggcc taccgcaagg ctgctatcaa gaaccacccc 120
 gacaagggcg gtgaccccga gaagttcaag gagctcgcac aagcctatga ggttttgagt 180
 gatccagaga aacgtgagat ttatgatcag tatggtgaag atgcccttaa ggaangaatg 240
 ggcggtggag gatcccatgt tgatccattt gacatcttct catcattttt tggaccctct 300
 tttggacgaa gtggtggaag cagcagggga agaaggcaaa ngaggggaga agatgtagtt 360
 caccactta aagtttctct ggaagatctt tac 393

<210> 8103
 <211> 412
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-017-Q1-E1-G12
 <400> 8103

gggtcgacgc acgcgtccac ccacacgtcc ggcgttcccc tctgcacgc aacctcatct 60
 cgtcctccag atccaggatg gccgtcctcc ttgagacctt gcctccccga gtgctctcgg 120

tgagctactt tgtttcgatt tatcaggaaa tccgtttgct tcatgttggtg caggctcata 180
 tctgattgct ggattcggca aaccgcgtt ggatcctgta tcggttagtc cttgcctgca 240
 aggttcttgt tgttttgttt tgggtgtcga gcatcgcatg ttctgcttct ggatccagat 300
 ctggagaaat cgcgaagtcg tcatcgttcg gtccggagcg gatctgaggc gacgatagat 360
 ggaggctgcg ggatctctcg gtctgcagtc ctgctccacc tcgatggatg at 412

<210> 8104
 <211> 360
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-017-Q1-E1-G3

<400> 8104

acaagcaaca tagaaagtgg aatccagtag caacaataga gcaaaaatga gaaaaaaaaa 60
 aaaataaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaac caaagcttcc ccggacgcgt 120
 gggctagttc aaatcccaat cggaagcgct agaaggatta agatttaggt acacgtgcat 180
 gcaaagtcaa agctcttcaa cattgtcagt gaaattcaat tcaaaggcct tggttttaca 240
 atgtcgtgat tgggaaaggc aagaccttac ccaaattaat ctccctggag cacatcccca 300
 tttccctatc gggcgtaata gtaaaaaggc ccacaccgat agccattccc aatagttgcg 360

<210> 8105
 <211> 364
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-017-Q1-E1-G8

<400> 8105

gcctgcccga gccgccgctc cccttctctg gtctctctc gcttcccagt ccagtccta 60
 gcccagcgcg ccgcggcgct aactggccag ctggtagtga tggcaaccga gccgccgccg 120
 gcagcggaga agaagaaggc gccgctcccc aagggtgtca cgctcaataa agccctcaag 180
 ctggcccaga catgggtgga caaatgagt gcatcgagc cggatgaacc caacgataag 240
 gatttcgagg gccggccacc aaagctcggt cttggtgcta aagcggcacc tgggtggaag 300
 cgtgtggttc cactgaccc agttgagagg aggttgcttg ggaagggtgaa tgcgcataag 360

agga

<210> 8106
 <211> 411
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB189-017-Q1-E1-H11

 <400> 8106

ggtctaaaat aaccgggtcg agccacgcgt ccaccacgc gtccgggcaa cctccaggac 60
 aatttctttg ccagtttcgc tctgggttg ctgatcacta atggtgctgg tcttgcatct 120
 taccctattg ataccgtccg cagaaggatg atgatgacat ctggtgaggc tgtcaagtac 180

aagagctcct tggatgcgtt ccagcagatt cttaagaagg aaggggccaa gtcctgttc 240
 aagggtgctg gtgctaacat tcttcgtgcc attgctggtg ctggtgtgct ttctggctna 300
 tgacagctcc agattctctt cttccgaaaa aaagtacggt tccggcggtg ctttaaattg 360
 agaaatatga tgacgaacaa gagcagtgtg tgttcccgtt cttttccaat c 411

<210> 8107
 <211> 203
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-017-Q1-E1-H2

 <400> 8107

acccagcagt ccgcatgcgt aaaatcacga gctaaatcta gcagctatag gtgcgcaccc 60
 gtctgtact taatgtttcc gagtatatgg ttagcacaca ttttgacaca cttcgtagtt 120
 ataccagcat tcttggtagt aattcaaaaa tgatcacttt gattacttat tagttaaaaa 180
 cagcaaagca aataataaaa agt 203

<210> 8108
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-017-Q1-E1-H7

 <400> 8108

ggtacctagt ctataattcc cgggccgacc caccggtcca gtcctcgatc cgatccgccg 60
 agtgcacacc acctttcccc actccgatcg aatcgatggc cgccgagggc gagaagaaga 120
 tgataaccct caaaagctcc gatggcgagg agttcgaggt ggaagaggcg gtggcgatgg 180
 agtcgcagac catccgccac atgatcgagg atgactgcgc cgacaacggc atccctcttc 240
 ctaacgttaa ctccaagatc ctatccaagg taatcgagta ctgcaacaag cacgtacatg 300
 ccgccgccgc cgccgccgcc gcctcgaagg ccggttccga cgacgtgggt gccgcctccg 360
 ccaacagcac cgccgcctcc ggtgagggac tcaagaactg ggatgcggac 410

<210> 8109
 <211> 312
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB189-017-Q1-E1-H9

<400> 8109
 gggccgaccc acgcgtccag tcggtcggtc agccgttcgt tggcgagatt gtttgctgct 60
 ggagtcggac gtgctcgcag cagtttcgct ggtccgtgac cgcgccattt gttgccacga 120
 atggttggtc ggtacgttga ggaacgatgt gtatgtagtg tgcacgtttc cggatgcatt 180
 tgttctcctc tgccctgtct gtatgtttac cccctgcac cccctcctcc ctcttttgta 240
 gagagagggt ctgtatgttc agtggaagat gattgttcta tttgattttt attttatgga 300
 aaaaaaacna ac 312

<210> 8110
 <211> 237
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-A1

<400> 8110
 tcgcctccct tcccccttcc ctccctccct ctccccgcgg gccgccagag gcaatttcgc 60
 cctcgattcg accccgattc gtccgcccgc gaccgggatt cctccgccca agcgcggatc 120
 tgaacgctgc gtcctgtgtc gccgctcgaa tccgccatga agggggccaa atccaagggc 180

gccgccaagg ccgatgccaa gctggcggtg aagagcaagg gggcggagaa gcccgcc 237

<210> 8111
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-A10

<400> 8111

ggtaacggtc cagaattccc gggccgaccc acgcgtccac ccacgcgtcc gcgcgtcatc 60
gtcttcgaca acccacaacc tctgctctaa cctcatcgca ctgcgcgaat cgctcgtgaag 120
ccgctagccg tctgcctcgt cctcacaccc gacaagctgt cgtgctcggg gtgttttcac 180
cgtgcggcct tacgtgttcc tctcgcttca tcggcttgct gcgtgttaga gcaaagctcc 240
atgatgaagt ggacatcatc gagagattgc tccagtactt gaagacccat tgggtgtggtt 300
ccacctaaact gggtatctag tagaaggatt ttggatcatc tctgcaacaa aggaaaagtt 360
ttgatgtcct tggcttcatc agatg 385

<210> 8112
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-A12

<400> 8112

gtaagggtcag gaattcccgg gccgaccac gcgtcaggag agaaacttct cttccagaag 60
ggggcaaagc tcgcggcctc gcgtcgcgcc ggctcgttccg gtccaacgcg gcgacgcaa 120
aggctgccgt ccccggggtt cctcctcccc ctgcctaacac cacaggaaga agcgagcagg 180
gcaccgtgtt ttctcgatcg atggcatcgg cgctgccga ttcttacggg tgcgcggcgt 240
gcagcgcgct cctggacctg tcggcgggtgc acctgtaccc ggcggacttc tacttcgagg 300
ccgggaacaa cggcacgctg tccttctcgt ggggtggacga gtcgcgcctg cggttcgcgc 360
ccgaggaccg catctgcccc ttctt 385

<210> 8113
<211> 360
<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-A4

<400> 8113

gagccacgcg tccacccaaa cgtccgctga ttagcctgag caatggcgaa ctctccgtca 60
ttgggtttca cacaatttag acttgcagaa ccaaattttt ggggctttac acgtcatgag 120
ggttcttgcc aaaaaatatg atttcaagtc tgaggatgag aggataccat tatttcacat 180
cgtataggac acatttcctc gtcaactaaa catttttatc aaactgggtc aaattgtcaa 240
tccacgaagt gaagttgctg acttaatcaa gttgatatgt aaaatatttt ggtcttctat 300
atatttgag attcggaagc agctatttga taaaatgtc gtcaatgcat ggatgggtct 360

<210> 8114

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-A6

<400> 8114

attcccggt cgaccacac gtcagctcat ccctctctta ccaagtcac ctccgggttag 60
ggttccttac ggttttgtga acgggccatg cgagctgttg ttgtggagta ccgttgcttc 120
atctgtcggc ttaccgcgc caccagcaac tactcccagg caaatgcctt cgcaccta 180
agccagatgc tcaactcaa cgtcatcaac gaccattaaa ccgggaagtc actcggtatc 240
cgcaacatca acatctctc cgatataacc aattgcgacg cattgaacca cgactgctta 300
tatgcagcat caaatagat taccatttat ccagccagct acatcaagcc gtgctt 356

<210> 8115

<211> 105

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-A7

<400> 8115

gacccacgcg tcaacggacg cgtggggcga cgcgtgggcg gacgcgtggg gcacgcagta 60
cgccggcaaa atgaaaaagg gtcctccgc gtcatgcact aactc 105

<210> 8116
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-B1

<400> 8116

gggtcgacgc acgcgtccag ttcaacattt ggcatataat aaccactta atatgtgttg 60
gacacttaat caccaaaata tactagaaat ggctaaggc cacatttccc ttttaggttc 120
gtggactaat tttgagggga cttggcccaa atcggtttgg tatcaatctt ttcttttctc 180
tctttttttg ttgatatttt tatgtatcaa ttcaaactg gtttgaattt tcaattcatg 240
tttaaaggcg caaacaaaat cccaacatga gatacaattg aagttttatt tatttatttt 300

aggagaggat aaagtgtagt ctttgtcatg actcatttta atttatctat ggtttgaaaa 360
agaaatagtc tgcaaccttt cttttaatgt tccaagtttt aaattt 406

<210> 8117
<211> 181
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-B12

<400> 8117

ggtaacggtc acgaattccc gggccgaccc acgcgtcaga aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaggggg ggcgcccaa aaggttcaag 120
cctaacttac cttcaaggc aagtccaaac ccctccaaaa tggcccccaa attcaattcc 180
a 181

<210> 8118
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-B2

<400> 8118

ggccgagcca cgcgtccacc caagcgtccg cccacgcgtc cgcccacggt tccgcccacg 60

cgctccgccc cgcgtccgcc cacgcgtccg cccacgcgtc cgcccacgcg tccggccccc 120
 ttcccatcc ttgcagtacc ttcaacagtg atggttccat atttgctat gcggtttgct 180
 atgactggag ccgtggggcc taaaatcaca accctgcagc tgcaaagaca tccatctatc 240
 tccacagtcc acaggaaacc gaggtcaaag gaaagccgcg cattgcaaca ggcataagt 300
 gattgcattg aagggtgttg aaggaaccat gatgtcatcc agcagttttg tcatgcct 358

<210> 8119
 <211> 279
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-018-Q1-E1-B4
 <400> 8119

gggtcgagcc acgcgtccac tatgagtctc tcgtgtatca taaaggactg catagaagtc 60
 tacatggcag gagtgtgga atttttgccc gaagcaaaag ctgtcctcta ctcccatgga 120
 ctaatgtatc tctggcaggc aatgctggtc cagcatcaaa aaatttcttt catttcgaca 180
 tttgccaat agttgtgttc atgttcttgt taaacctgt tgtgaatgag aagggacgac 240
 atttacctcc ttaatatagt aaaaacatgt tcgtcaaaa 279

<210> 8120
 <211> 377
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-018-Q1-E1-B5
 <400> 8120

ccgggcccgc ccacgcgtca gccacgcgt ccgaacaatc cccaaacgcc tccgcctccg 60
 cctccctagg gttttgtct cggctcgtcg gatccagttc gggggatcct ccatggcgctc 120
 gcgtccgtcg ctgaagtcga agcccaaggg caaggcgagg aagaaggcca ccgccgacga 180
 cgaggacgcc accgcggcgg cgaccacggt gcggctcatg aaggagtgga ccacgtggac 240
 gatgaagaag gcgaagggtg tggcgacta cggcttcac cccctcgtea tcgtcatcgg 300
 catgaactcc gagcccaagc cctccgtgtt ccagctcctc tccccgtct gatcggatct 360
 ccccgctcagg gcccgga 377

<210> 8121
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-B6

<400> 8121

attccccgggc cgaccacgc gtccaccac gcgtccgcaa tcgaccacca aactttacat 60
acaagatgaa actcgtcaga ttctcatga aattgaacaa tgaatcggtg acgatcgagt 120
tgaagaatgg tacaacagtt tctggaacga ttactggtgt cgacccttca atgaatacgc 180
atctcaaaac cgtcaagatg actgtacgaa accgggaacc gacgacactt gaaactctag 240
cgattcgcgg caacaacggt cgatacttta tcttgcccga cagtctaccg ttagatactc 300
tcttgatcga tgatgcacct aaacctaata agaagaaggc tgacggtgct gcacgaggag 360
gagctgccgg tcgaggagcg agaggtatgg atcgtggtgg aagaaggg 408

<210> 8122
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-B7

<400> 8122

aattccccggg ccgaccacgc cgtcagccac atctccactc ccacaacaac ccgcaatacc 60
aacgacacaa tgctcggcct ccgcaccgcc gcccgcgctt cgtctgcgct ccccgttttc 120
cgcaacgccg ctgcgcgccg cttcaactcc agcgccgcga agggccttga gggccctgcc 180
gacaacgcct tcaatcgcga gagggccgct gtcaagcagc acgctgctga cacttctggc 240
acctggcgca agctttccat ctacgttgtg atccccctca tcattctcgc cagtgtcaac 300
gcctacaggc tctggaccga gcaactggag cacgtcgccc agggaccagc tcttgaggac 360
aagccccgag accccttcca gaac 384

<210> 8123
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-B8

<400> 8123

attccccgggc agaccacgc gtccgcccac gcgtccgggc cgcggcggtt atggtggcgg 60
gcgccgtgac ggcggttatg gcggcggtgg cggctacggc ggtcggcgcg aaggtggcgg 120
cggcggctac ggaggcggtg gcggctacgg cggtcggcg cagggtggcg gtggcggtta 180
ctgcggcggt ggcggcgcg agctggaggg actgatgtgt gggcccatcc tgacttccga 240
cgagttatct tatctatcta tagtatcgtg ttactgttcg cttctgtcac cgtgttactg 300
ctcgtactac ctttgcatta ggtgttggtta ccctgttgtc cgctttggtt gctcccgtta 360
tg 362

<210> 8124

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-B9

<400> 8124

ccggggccgac ccacgcgtca gcgtgttcgt ccgcgacaca gcgaatgaat tgacacgccg 60
cgcgcgagct cgctcggctg gcttctgac gcgcagtttc tctctgtcct ctgcgcgccg 120
cgcaggatct ctccaacaag gtctctgctca atgccgtcag agccttctcg ccgccgctgc 180
tgctccgcct gggagggtcg ctgcaggaca aggtggtgta cgggtacggc agcgcgggcg 240
ccggggcgccc gtgcgcgccg ttcgccagga acgcgtcgga gatgcacggc ttctcgcatg 300
gctgcctgcc cctgcgcagg tgggacgacc tcaacgcctt cttccggaga tccgggtgag 360
ctccgtccgt ccggccggcc ggcggttt 388

<210> 8125

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-C1

<400> 8125

gtctagaatt agcgggtcga gccacgcgtc cgccacaggg gtggtggcca ggtcattcca 60

actgccagga gggtcattta tgcttctcag ctcacagcca agccgaggct gctggaacca 120
gtttacctgg tggagatcca ggccccagaa aatgcacttg gtggcatata cgggtgttctg 180
aaccagaaga gaggacatgt attcgaggag atgcaaaggc ctggtacccc gctctacaac 240
atcaaggctt tcttcctgt catcgagtcc tttgggttct caagccagct gagggctgca 300
acctctggtc aggcgttccc ccagtgtgtg tttgaccact gggacatgat gggctcggat 360
cctttggagg ctggctccca ggctgcccag ctggtgctgg atatccgc 408

<210> 8126
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-C11

<400> 8126
aattcccggg cgcaccacg cgtcagaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaaa gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaagaaaaaa caaaaaagaa 120
aaaaaaaaag aaaacaagaa aaaaaaaaaa aaaaaataa aaagaaaaag gggggggccc 180
ccctgggggt tcaatctttt gatcgccgat tttcgcaggg aaaggccctc caaaagggcc 240
cccaaattta cttgcagggg cgatcttttt aaaccatctt acagggaaaa cccctggatt 300
tccaatctt ccccccttta caaaaatccc cttttacctg taggggagtt acacaaacag 360
ggccactgca attcaccttg caaaaattt acccgccaca tggggcaact ggggtccccc 420

<210> 8127
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-C2

<400> 8127
gggtcgagcc acgcgtccgc ggacagcgtg ggctggaatt cttggaaaca tttttgacgg 60
tatccagcga cctctaaaaa ccacgctat taagtcagga gatgtgtata ttctctgtgg 120
tgtttcagtt cctgcccttg acaaagatgt attgtgggaa tttcagccaa cgaagctagg 180
tgttggagat gtcacacag gtggagatct atacgtact gtttttgaga acacattgat 240

gcagcaccat gttgctcttc caccgggttc tatggggaaa ataagttaca ttgcaccagc 300
 tggccagtac aacctgcagg acacagtgct agaattggaa tttcagggca taaaaaagaa 360
 atttaccatg cttcagacat ggcctgtgcg ttcaccaagg cctgttgcac 410

<210> 8128
 <211> 107
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-C4

<400> 8128

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaa 107

<210> 8129
 <211> 309
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-C5

<400> 8129

gccgtgtgtt gattgggata tagagagttt ttttcctctc ttgatggaag tacttgggaa 60
 gctatgttga tagactgaac atttttttgt aaaaaaaaaa aaaaaaaaaag aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaacaaaaa aatatgaaaa aaaaaaaaaat aaaaaaaaaa 180
 aaaaaaaaaa gaaagaataa ggggggaccg tccaaggggt tcaatcctaa gacacgtcgg 240
 catccagcgg caaacacctc atcgaagacc tcaaagcaaa gtgggacgcc gttgatgata 300
 aaccacccg 309

<210> 8130
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-C7

<400> 8130

aattccccgg ctgaccacg cgtcagcgga cgcgtgggct ccttccccgg ctctccgcc 60

cggttgcccttc gtccccctcca tctccggctg cgtcgccggc gagccccgaca ccgcgaatcg 120
 gatccgccga caaggcgaga gggaagagat ggggctcacg ttcaccaagc tggtcagccg 180
 gctgttcgcc aagaaggaga tgccgatcct gatggtggga ctgcacgccg ccggaaagac 240
 caccatcctc tacaagctga agctcggcga gatcgtcacc accatcccca ccatcggatt 300
 caatgttgaa actgtggagt acaagaacat cagcttcact gtctgggatg tcggggggcca 360
 ggacaagatc aggccactgt ggaggcatta cttccagaac 400

<210> 8131
 <211> 291
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-018-Q1-E1-C9

<400> 8131
 attcccagtc cgaccacgc gtcagaacct atttcctcg ctgcacccc gtcccccccc 60
 ttgtctcttc cgcttcgcc cgaccccgcg cgccgcggac cagcagccat gtcgtgctcc 120
 cactctcca ccgctggtc ctctcggcg ctgccagca gcgcctccac caaccgtcgg 180
 cgctcccccc cgcgctcggg tctcctggtg aggtgttccc tccgtgagct ccgcacccgc 240
 atcaactccg tcaggaacac gcagaatc acggaggaca tgaatctggt g 291

<210> 8132
 <211> 339
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-018-Q1-E1-D3

<400> 8132
 cggctctagaa ttaccgggcc gaccacgcg tccacggacg cgtgggcgca tgtgaggtgc 60
 tgtccagcat tgagcagaat aatgcagaat acttgcgga tgagccattg acggctgctt 120
 cgctgatcaa aacacctccg tgaacacaaa catgaggcac agaagaaatg atgaaaaata 180
 aaagggattg taacagtttt ggtgcctttg actgtaactg gcagagtctt tggggacaga 240
 gtggcatgga ttaattgcac ctgatcactc tgtatgtcgc tgtcatgtgt gcaatgttca 300
 atacgtacgt aataaagaat ggaaatatat gccgcaaaa 339

<210> 8133
 <211> 373
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-D6

<400> 8133

attccggtcc gacccacgcg tcagcccacg cgtccgcgga cgcggtggcg ggcgcgtggc 60
 gctaggtgga atactcaggt gaggttggat cagcgtggg gcctactcga cagttttaca 120
 cccgcttaac ccatggttta caaagtgtc aactgggact aggggtgagct atctcttcat 180
 atgattcacg attgcacaca gacaggaagg atgtgatccg ttgacatcct gaatatgggt 240
 cgtcaggaaa gtcacttagt acagatctac caagtgatgg catgtatttg caatatactc 300
 cacgtggatt gttgtcacga tcttggccat ctacagttga tacatcagaa tgtatcagaa 360
 tcttcagagt ttt 373

<210> 8134
 <211> 310
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-D7

<400> 8134

ccgggcagac ccacacgtca ggtgggttgg cttctcctcc cctccggtt cgggttcggg 60
 ttcgtgaggt tctccggggt tcggtttcgt gggtgagcgg atcgagatgg cggcgtcgga 120
 tgttgagtac cgctgcttcg tcggcggcct cgctggggcc acggacgacc actccctcca 180
 caacgccttc agcacctacg gcgaggtcct cgagtccaag atcatcctcg atcgggagac 240
 gcagaggtcc cgctgcttcg gcttcgtcac cttctccacg gaggacgca tgcggaacgc 300
 catccagggc 310

<210> 8135
 <211> 387
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-D8

<400> 8135

ccgggcccgc ccacacgtca gggtccttct ggggctggcc cgaggtcaac atccgtccct 60
gggcgccgct gctggaggag atggccgccg agatgggtcg cctgccgtgg gcggaccggg 120
agccgtacgc gtactggaag ggcaacccca ccgtgtccgc cgagcgcgcc gacctccgcc 180
gctgcaacga ctctcgctcg tccggcggca cgcgcgtgtt ctggcaggac tggggcgccg 240
ccatccggga cggcttccgg gactccaacc tggccaagca gtgccgtac cgctacaaga 300
tctacgtgcy tggccggtcc tgatcggta gcctcaagta catcatcgcc tgcgactcgc 360
cggtgctgct catcgccacc cccttca 387

<210> 8136

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-D9

<400> 8136

aggtaacggt ccagaattcc cgggccgacc cagcgtcag ggcacctcac ccgatcccta 60
tgggggtgga agcatccacc tagtgtgtga tcattgcggt accagtgaca actacaccac 120
tgacgacgct gatgatggcc aattcacgtg ccgtacatgc tctgccgtgc aactacaca 180
ggcaactgct gctgacctc atgacttccc cgccactggc aacatctctg tccgtcgtgt 240
tgccaccag cccaccccca agcttgggtg ccgcacacc gcgccttacc tgaggacccc 300
tcaggctgct cccgtgcctg ctactgccgc ttttgatgac ttcacagagc tgagtgagcc 360
gcgggacttt gtgtctggat ctggcacgtg tggggagcct g 401

<210> 8137

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-E10

<400> 8137

attcccgggc cgaccacac gtcagcacat ccatcgggta ggagttaatg gtgttagctt 60
aggagctcag caccacaggt cttaacaact tcgttcgtat ctaagtcata tactcctatt 120

cgaagaggat ataacatgaa aatgggtgtga tcattaaata tgaatgacac atattcatta 180
gcttaagcaa actccttttt ttaatgaatg acttgatata aattaaatat cttttttttt 240
gatatttttg cagtcgtttc atttaccctt aatccatata gactacatcc tgtcgggtgtt 300
aaaattctaa gatcatgagt tgtaaggagg gacatatgtc acgacatgca gaaactaatc 360
caaatgttgg atttaaagct ggtgtcaacg a 391

<210> 8138
<211> 354
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-018-Q1-E1-E11
<400> 8138

gtttttgttt attattcttt ttttctgttc ttatcttttt ctttcttata tatttctata 60
ttttttctct tataggatat attttgaaca aggtgagata atggagtaag tatcaatcaa 120
attgatcaac tcaagcaaac accgcacact acagaaaaca ttgaggagat ctacgtaact 180
ttggttttga aaatcctgca accgattcaa taattcctaa tccaggtcga ctagcagctg 240
acagagttta gacatccaac atcaagaatt gtcaggacgg acataagtca tgacaagcag 300
aaaggaatcc aaagggacga ctcaaaaatt ggtgtcaacga ttaggggctg aagt 354

<210> 8139
<211> 283
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-018-Q1-E1-E2
<400> 8139

cacgcgtcaa gccaaagcgtc agggcgcgct ccgtctgata tctcaccgca ggaatctcga 60
acctctctca cccatcaaca tctaccccca aacctcaacc ggcctagctc cagcacttgt 120
gcactaacta tctccgtgcg gttagccacg agcatcgata ctcatatac catacatccg 180
acgtctcaca tctccaactt gcccaattat gatgtaatgt ctgtccatga tgatgccata 240
taggaatcgc cattgggaac ctctcagcga atttacacga cat 283

<210> 8140

<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-E3

<400> 8140

cgggccgagc cacgcgtccg attattggag aggcaattgg agcagaagaa cagcttgagc 60
ctcgtagaag tgcaagagtg agagagctct atgaaggaga agagtttgag tctgaagaag 120
aagagtatga agatgaagat ttgtgctaca gtgaagatga aatatgatct ggaccatctc 180
catctagtag tgaagccttt tgtgatgccc tggcttatg aactgcagct gtgtcacttt 240
gtgtctgtgt gtcttctttt gtgtgagacc tgaactaaga actatgtgct tgtgttgctc 300
tttatttata aattgtgttc tgcactaaaa a 331

<210> 8141
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-E4

<400> 8141

cacgcgtcaa tccaaatcag cagagcggca gtgcgtagag aggatcgtcc aacagaacag 60
catgaaaatg gtcaacgttc acgtcgtgtg cctggctctg tcagctgcca acgcctctgc 120
aatgcaaatg ctctgccctt gcgcggagct gcaaggcttg tacggagctg gcgccagtct 180
gacgaccatt attggcgccc tgggcctgta acccgaagct gagtaactga ggcaccctca 240
gtgcaccccg ctggcagagg tgccctacta cgcagggtgt gtggcatcct agcgcaatgt 300
tccatccgct ccggcaacag tgctgccagc agcagatgag gatcacggac gtatagtccg 360
tcacgtagca gttgcagata at 382

<210> 8142
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-E6

<400> 8142

ccgggccgac ccacacgtca gggaacattt tatgccaggt ataatgacat tgccaagcat 60
gcattggatg ttgtgaaaag taagagccta gttttgactc aatcactgga tgctcacaac 120
ataactgaaa caaaagagca gcctgaagga tttgacagtg attgggttaca taccttactt 180
tggcaaggca atgaacttcc tgctcctgtc attgatgtat gcctactact gctttgagta 240
caagtggaac ttctttgcag tgagtctgca tgagaggctt gatttctttg aatcaaactg 300
ggcgttcttt gctggatttg gtgcaccatg cgtccttcga attttcttct tctctcctct 360
tataagctat gggtttctgg ct 382

<210> 8143
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-E8

<400> 8143

ccgggccgac ccacgcgtca gccacgcgt ccgagattct caaaatgggt ctcaagagtg 60
atatgatgtt cgataagtcc ggttttttgt cctgtcctgt cgtgaaaagt tctgaactgc 120
tagtctggcg caatgccttg gctgctactg ttgcgtcaaa gtgatattct ggctgaccgc 180
attctcttgt gctaattggc acagggtccga ttgcatcatt gagtccttca agcatcggat 240
gtgtatattc ccaaagatgt aattatgccc tagtcgtagt tttccccct tcaataaatc 300
agttccatag taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaggg 360
aggaagcaca agaagaatca agctttaagt atccgtgcaa gcaaagtcaa aacc 414

<210> 8144
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-F1

<400> 8144

gggtcgagcc acgcgtccgg cgcaggactt caagacagac ctccggttcc agagccacgc 60
cgtgctggcg ctccaggagg ccgccgaggc ctacctcgtc ggtctcttcg aggacaccaa 120
cctctgcgcc atccacgcta agcgcgtcac catcatgccc aaggacatcc agctcgcccc 180

ccgcatccgt ggcgagcgcg cgtagccatc atctccgggg atctgatgaa tgtctagtta 240
 ccaaacaaat aggctgtatt agcgtcgttg ttctgtattc gttattttgg attcgggtgc 300
 agtgaaaaac agctttacta atctt 325

<210> 8145
 <211> 422
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-018-Q1-E1-F12
 <400> 8145

aattcccggg cgcacccacg cgtcagaatg taagtgtctt tattgatatg aaactggaga 60
 aatacaaaaa catacgcgaa gaatcagctt tcttctatgg agagatttct gaaggaaccc 120

tcaaatttga tagaaaagaa gcagaggttg ctgcactgag ggagctcaag aaggaagagt 180
 tggtaggctt cttcaatgat catgtcaagg tcaatgcacc aaaaaagaag attcttagta 240
 tacaagtgta cgggtggtctc cattctgccg agtacgaaac catagtgcaa aatgctccgc 300
 caccgccgtc gtgtgagata actgatattt atgggttcag gaggtcgagg cctttatatg 360
 gattattcag gggaggcggtt ggtcagatga agctatagtt caacattttc tcatcattct 420
 gt 422

<210> 8146
 <211> 338
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-018-Q1-E1-F3
 <400> 8146

ccggtctaga attcacgggt cgacgcacgc gtccgacgga atactctatt ccagtagtg 60
 ataaacaaaa caaagaatct tctctgtctt cgtgcgggtg tgcttgccat ttccaggccc 120
 agctgttcat tctcgaggct ccttctcttg tagttcgctg accttgcgca gcagatcgag 180
 aggctgaggg gagagggatc catggagctg ggaaagcccc ttccggcgca cagatgtagc 240
 tacaccgcta cctacacca ctgttcata ggcttctccc ctccgggtcgt ccgtaccagc 300
 tggatccgcg cggcgggtga gggcggcgac ggcggggc 338

<210> 8147
 <211> 323
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-018-Q1-E1-F5

 <400> 8147

 ccgggcccgc ccaagcgtca gcccacgcgt ccgcggacgc gtgggtgaga gtattttgaa 60
 tatttgttct gtagacattc tgttcctggc ttgatgttgg cgctgcacaa tgacaatggg 120
 atatgcagta ggtttgattt ttctttttct tttaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaacaac aaaaacataa 240
 aaataaacac agcaaaaaaa aaaatcacaa gaagacacaa aaaaaaaca aataagataa 300

aaaataaaaa gggggggctc cac 323

<210> 8148
 <211> 380
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-018-Q1-E1-F6

 <400> 8148

 ggtaccggtc aggaattccc gggccgaccc acgcgtcagc ggacgcgtgg gcggacgcgt 60
 gggcggagca ggtgcagaga gggtcggaaa acgtggcaag gttggaactg gagctccaga 120
 agatccagta cgtcttgctg aagcttgagg aggagcacga gtacagaagg ctcaaagtct 180
 ctgataagcg caccctgtgt cttttgaggg actacctgta tggaaggaag gaccgtggtg 240
 gcgggcagaa gggaaagaag aagcgggtcc cgttctgtgg ttgtgttcgt tcgaaatcaa 300
 gaacagagcc gtagcctttt tgttctcgca cccctgcgcg ttggaagagg tgaagggtgc 360
 ctttaggatg gatccccctt 380

<210> 8149
 <211> 353
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-018-Q1-E1-F7

<400> 8149

aggtacaggt caggaattcc cgggccgacc cacgcgtcag cccacgcgtc cgcccacgcg 60
tccgggaatt gcactcagct taggggacaa gatcactctc aagcagaaag gtggcagtta 120
actgtgacaa gtaatcgcag ttgtatcatc atttttcgca tttaggaaat ccacgtgcca 180
gagagagacc agtgccgtgg cattgaactg agtataaatg cttttttgta caaaaggatc 240
gatcaaggag agagataaga ggacagttat gaggaagtca cgaagttgtc ggtcgaagat 300
atatgttgct gtagtaacga agctgttcca aacttccttg aaatagttgt gaa 353

<210> 8150

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-G10

<400> 8150

ttccccgggcc gaccacagc gtccgcccac gcgtccgga caaagtatat tccattctat 60
ggaggagcag aataccatga ctatcatcat tatgtaggag gccagagcca aagcaatttt 120
gcttctgttt tcacttactg tgattactta gatggcactg acaaaggtta cagattccac 180
aaaacatacc tagcaaagct gaaggatctg gggcataatg atggccataa aggagacggc 240
agcggaccca gctatgtgaa actggattag attgcaagat atagtgcac ttgagtgttt 300
ctatggcatc cgacttcact gtggcatttc gaaatgggat attgctgagt tgggctggtc 360
acgtgtgttc tcatttctgt agcaagcata cagctttcag ctctgccttc ctcttctt 420
tttttttt 428

<210> 8151

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-G11

<400> 8151

aattccccggg ccgacccacg cgtcagagct gtttgattgt gtggtcacag gaagaaaggt 60
ggacaagtga ggaaaagctt gaccatttct ttccatggga gggcttgtga cgcttataga 120

aaggggagag catgtcatta gcttctgatg ggcctctgct gccaatcggg gaagcgggca 180
attgctgctg acgagtcctat tgtagctga aaacatcatc aactttggtg atcgtaactc 240
acagcaaaac aaaattatct actgtgcctt gctgcttctg gggtttggtg tagattcgcc 300
gaagtgccat atcctttatt gtttggtgtc cagataagta ttagctgctg actgacggtg 360
cggtgtggtt gaacataaga ttgtgt 386

<210> 8152
<211> 401
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-018-Q1-E1-G2
<400> 8152

gggtcgagcc acgcgtcaga aattacttca tgcaaggatga tgcgtgatca aaatggtcctt 60
agcaaaggct ctggatttgt tgctttctca actcgtgagg aagcatctca ggctttaact 120
gaaatgaatg gcaaaatgat atctggaaaa ccattgtatg ttgcatttgc gcagcgcaaa 180
gaagatagaa aagcgatgtt gcaggcacag ttttctcaga tgcgccttgc tgtaccaatg 240
acacccactc tagccccgcg cttccaatg taccctccta tggctcctca gcaactcttc 300
tatggacaag cgccacctgc tatgataccc cctcagccag gatttggttt ccagcaacaa 360
cttgttccag gcatgaggcc tgggggtcct catatgccaa a 401

<210> 8153
<211> 409
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-018-Q1-E1-G6
<400> 8153

tcccgggccc acccacgct cagcacgatc atgttctgga cgggtgtacgc gcagatgacc 60
accttctcgg tgtegcaggc caccaccatg gaccgcccgc tcgggggctc gttccagatc 120
cccgcgggct cctcaccgt cttcttcgtc ggctccatcc tgctcaccgt gcccgcttac 180
gaccgctcgc tgggtgcccgt cgcgcgccgc gtcagcggca acccgcaagg cctcaccgcc 240
ctgcagcgga tcgcgctcgc cctcgcgctc tccgtcgtcg ccatggctgg cgccgcgctc 300

acggaggtcc gccgcctccg cgtctcgcgc gagtcctccg agtccgcctc cggaggcgtc 360
gtgcccaggt ccgtgttctg ggtcatcccg catttcttcc ccccttggg 409

<210> 8154
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-H12

<400> 8154

gtccgggagg atggtcgcac ccttgcagac tacaatatcc agaaggagag caccctccac 60
ctggtgctcc gtcttcgcgc tggttattaa gccatcagtc gttgaagctg ctgctgtatc 120
tgggttatct agtgtctctg ccattgccca tggatggtgc tgtctttcaa agtatttgta 180

tggtttgtgt cgtgagtcgt gactgagctg gtttcatgga ccagttgtgt tctcgttacc 240
caaaactatc gtgcgatcgc atatggctta atcatgaata aatggtgttt gaatttaaac 300
taaaaaaaaa aaaaaataaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360
aaaa 364

<210> 8155
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-H5

<400> 8155

aagtcccggt ccgaccaca cgtcagccca cgcgtccgaa taaattaact ggtgataaat 60
attctgtaac agagatagta acacgttatt gcctagcaat atctaagatt acttttttca 120
caataaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaa aaaaaaaaaa gggggggccc ccaaagggt tcaaacttaa attccggggg 300
aaggcaattt aaaaccctt caaaagggcc ccaaattca atttcagggg ggtcctttta 360
aaaacttcgg gatgggaaaa acccgggggt taccaaattt aaacccttg aaaaaaacc 420
cccttttccc 430

<210> 8156
<211> 219
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-018-Q1-E1-H9

<400> 8156

gaccacacg tccgcggacg cgtgggccg gtcacactc gtaggcacgg agtgccgttc 60
cgtggtgggt ggaatcacca aaaatgcct cgtccacca ccacctctc ctctgacgc 120
tcgccgcctt ggccgtggcg gcagccaccg ctacgcccgg cggggacccg ctggcaatct 180
atgcgcattt cgacgcctga tgcgcgggcc aggggaagg 219

<210> 8157
<211> 468
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-A2

<400> 8157

ggtccagaat taccgggtcg aggcacgcgt ccgtagtgtt cttggttggt ggaatggaag 60
ctcagcagct ccatttgtgt tccagagatc ttcgtcgttc tcgttcccct cgtgtgtagc 120
ctttggtagg ttggtggaag ggcgaggcac acaagaaaat tgatagaggg gggatcccca 180
ttttcagctc ttcgtgtttt tttgtaggag gaattcccgt tcacatgac cgtgcctgga 240
cgtgacggtt ttgccgcgt ctgctgcttc ctttcgggg agaagaggac tcgactcaa 300
tcatttggtg tcgcagacgt cgcccttccc agttcagttg agagagattt ctggcatgtc 360
cggcgcaagt aactatggat ccctcatcga tgaatggttg ccgcccccta cacctagccc 420
aagaactctc atgtctagct ttctgaatga agaattcagc tctgcgcc 468

<210> 8158
<211> 75
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-A5

<400> 8158

acccacgcgt ccgcggacgc gtgggttata tacaaaatgt gtcttatatt gttataagaa 60
 aatatttcac aaaaa 75

<210> 8159
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-A8

<400> 8159

ccgggtcgac ccacgagtcg gaccacgcgt ccgcgcacgc gtccgcaagg acaacggagc 60
 cgatgcgccg gtgcccggga ggtacctcat caatgatcct aacgccgagg aggtcgtagc 120
 cactggcgac agcgctgca cgattccggt catcgatttc cgcagcctgc tcgatccggg 180

gtcgtccgac gaggagtgcg ccaggctggc atccgcgtgc caccactggg gattcttcca 240
 gtcacatcaac catggcgctc cgcccgaggt gactgggaac ctgatgaagg acgtagctgg 300
 gttcttcagg cagccgctgg cagccacgaa ggagtgcgcg cagcaggccg gcagcatcta 360
 aggctacagc caggccttcg tcgcgtcgga ggaccagaag ctggactgcg cggacatgct 420
 cttctcatc gt 432

<210> 8160
 <211> 249
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-B12

<400> 8160

cgtcaagttc accggcaagg ccaccttcga ctaatcagac ctacgtacg ccgcacgccc 60
 cagccgggat ccaaattaaa gaacttcttc ttctattagt tacagtacat tgtcatttgg 120
 ctgctggtac ggtggtggca tgatttgaca tgtgcatgat gatccctgtg taattttata 180
 taccaagtct cgtcatatag ttacatgttc atttgcttgc ttctaaagaa agtgacatcc 240
 agtcaagtt 249

<210> 8161
 <211> 416
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-B3

<400> 8161

ggccaagaat taccgggtcg acgcacgcgt ccggagactt attacaaaa tatcgagtcc 60
ttgctatcaa catatgagaa cattattgtc aaagtgaag gagatgccac agtggatgct 120
gtctttgcta agatcgacga gctgctgggt tctatcctgg agaagaaaaa tgaaatgggt 180
tccagcacat gagcaaggta aaaatgattg ggtgcagtgc agatccgaca agttcatgta 240
atgcaagtca cctctcatga taggaacttc tccaggggaa tatatctgaa gcacaggacg 300
acacgtacaa gtaatgtaag ccagtctcac gtaatggaaa tttctccatg tggatgtgggt 360
caaagcatag gaattttttt cctccaatta attaacggta cgccaatgga agcgac 416

<210> 8162

<211> 87

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-B5

<400> 8162

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaa aaaaaaaaaa aaaaaaa 87

<210> 8163

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-B7

<400> 8163

ccacgagtcc aaaagacggc aatgcagacc cccgcgcgcc tctccgtccc atcctcgccg 60
ctcgtctcct ccgcgccacc gatacctgta cggccacaac gcgtcgcttt cccctcccg 120
cgccgccgtg atctcctcct cctgccggcg gcgtgaccc tcccgaaggc gcccgccccg 180
ttgcctgcct cggcgcgagg gctgttcgc atgcccccg cgaggctgggt gaaccgttac 240
tttctgggtgc gcccgggcga gtccgtttac gacgggcagg gcctcctccg caggacgccc 300

gtcgtctaaag acctccgtcg acagcggcct cccccccgtg gggctccgtc agactgggcg 360
cgccgcgctt cgacccc 377

<210> 8164
<211> 399
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-019-Q1-E1-C10

<400> 8164

ggtagcggtc aggaattcnc gggccgaccc acgcgtcagc ggacgcgtgg gcgtcggcga 60
accgcaaggc gacggcgggg ctgaagctgg aggcgcgcga ctccggcctg cagacgggtg 120
accccgccgg gttcacctc gccgacacgc tggcctgcgg cgccgtcggc cacatcctcg 180
gcgtcggcat cgtgctcggg ctcaaagaac accggcgccc tcgaccagat catcggttag 240
atccctacgt cgtcgttgtt aagatcagac tcagcagcct cgatcgcgcc gccggccggc 300
aggtgcctgc aggtgggtgac tttgtaacgt gtgtgcgtgc gtacgtgtac attgcatcca 360
tcttggttcc aatggacata tagtcctgt tgetcctct 399

<210> 8165
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-C2

<400> 8165

gggtcgagcc acgcgtccgg cgacatgcac ccggcgacgt ggggcgcggc ctacggcaac 60
agctggagga ccaccaacga catcgccgac acctgggaca ggtagtctg tttgttcctt 120
gcgttgccggc ctgcgcgtg tctgtccag actccagacc gtttgctagc ttactgaga 180
cggtacctgc cgccgttcca gcatgatcgc cacggcggac cagaacgagg tgtggtcgga 240
gtacgcgcgt cccggcggtat ggaacggtct gtactgtact gtacacatga tcagttgaac 300
ggcctgtaca tatgatcaga tggattcgcg ccttaacgct ccggtccggt ggtctggcgt 360
gtgcagatcc ggacatgctg gaggtgggca acgggggcat gaccaacagc gaggtagtgc 420
tgcaact 426

<210> 8166
<211> 464
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-C3

<400> 8166

gggtcgacgc acgcgtccga ccacgcgtcc gccacgcgt ccgaccaagg agagtacgtg 60
gaggagcagc catgggttca tcggtggccg ccgcggcgag cacattcctg ggcacccgcc 120
tggcggaccc ggcgccacag aacggggcgca tcgtggcccc gttcgggttc gggttgggcg 180
gcaaggcgaa gcctgctccg aagaagggtg cgaagacatc gacctcctct gaccggccgc 240
tgtggttccc cggcgccgtg gcgcccgaact acctggacgg ctcgctggtc ggcgactacg 300
ggttcgaccc gttcgggtctc gggaagcccg tggagtacct gcagttcgag ttggactcgc 360
tggaccagaa cctggccaag aatgaggccg gcggcatcat cggcaccggt ttcgagtcct 420
ccgaagtcaa gtccaccccg ttgcagccct acagcgaggt gtgc 464

<210> 8167
<211> 280
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-C7

<400> 8167

cccgggtcga cccacgagtc cgaccacgcg tccgcaatta aggttcagat acatccttgg 60
actcttcgat cgtctcgctt aaggtaatgt tgggagcagt tgttcgtgat gagcgtgaat 120
agattggacg agagttcaaa ggtgggtatct gtcattgtcc tgtgaaatag ttatgataat 180
tgttttcttc ttcaagaaac tatcaacatc aacggactac tgaccgtgat ctttcaagtc 240
ttatgctgga ggccgtgctg aggggttttct ctctgtccag 280

<210> 8168
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-D10

<400> 8168

ccggtctagg attccccgggc cgaccacgc gtcagacaga aggcacttct agatcatggg 60
aagaatatag accctgtgaa attgcaattg gaaaaggaga ggctggaaaa gaggcagcaa 120
gaagagaaag caaggatcga ggcccagggtg aaggctgctg aagcagctgc acaacaaaag 180
tttgaggaag aaatgaggat gaagagaaag caggaaaggg aggcagcacg cctggcacta 240
cgcatgatga agaagactgt tgatattgac aacagtgact tcctaaagga gctggagaac 300
ttcagcaaaa catggcaggc aaatccacct ggcaaattaa tcgtggattt tatcagtggg 360
gacttgccac cgggggttagg gagtccgctg gagaggctcg gcctcttcat gaaggaag 418

<210> 8169

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-D12

<400> 8169

ccggtcaggt attccccgggt gccccacgc gtccgtattt tttgatcata ataagttcaa 60
taacacaagg catcaacaca aacaacgtca cgttacaaca gttggagaca gtactacgtc 120
ctccagtcgg ctccagagat caatgttcac cacgctaata acgagttaca ctttgaaccg 180
ggtacacaca tttgtccctg ccaacataaa agaaacggaa agataactac gtgctgggca 240
gcctaattgct gcacagcgct gtcattgtcag gttaaccacg attataagtc tcaaagcaaa 300
tgcgaggtat tgccctagac acacaagcaa cagtctccca tcggagacca agctccctta 360
tgtgcacctg acagcagatg caccagggt 389

<210> 8170

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-D2

<400> 8170

ggcacaaaaa caataacccc agaagaaaac aaaatgtctg cttgaatttc aacaaaaaca 60
acaacagcgt gacctcttaa ctacacacaa aaatgtttct caagactcag gattcccatg 120

cactggacgg ggggttgaat cttcaatttt cggggggccc cttttaaata attgcggccg 180
aaggggtatc accgcatata ggccatcggg ttggacacgg gtggcccaaa taaatttagg 240
taacaaggga atccataaac gttggccccc cccaaatttg ggattaatgg ccacgatcca 300
aaattcccc gtttaacct a 321

<210> 8171
<211> 478
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB189-019-Q1-E1-D3
<400> 8171

ggtcaagaat taccgggtcg agccacgct cgggatcgga gtctgtctct gtcccagaac 60
tgtccgtctt ggatgaatct gacgataaaa tgcaatgtgg tgtttctggc aaggatgagg 120
aagcacatgt ggaggagaaa actgtaacta ttgctgttga caaggtaaca ggaggttctg 180
caaatttcga ggatcctctt tgtgaggcat cgaggaagga acctgacatt gagaagagtc 240
acccaagcct cggagaagag gaagacgata caatagggtg aacagtcttc cctggttcag 300
gtagctgtga attatcatgt ccacaggatg gtggcatcgc agtctacgag gggcctgaga 360
tggtgtcacc agagagccaa actgatgctc ggaaagaaaa catccattca gatgtcgctg 420
agacagatga atgcaccaag actcagaagg cgcgtctagc angcacagan ggagaaaa 478

<210> 8172
<211> 461
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-019-Q1-E1-E1
<400> 8172

gggtcgagca cgcgtccgac cacgacgtcc ggtgctggtg gtggtggcgc tgctggcttc 60
gtccgcgtcg gcggcgatca cctgcgggca ggtggggctg tcgctggcgc cgtgcatccc 120
gtacgcgacg gggagggcca gcgcgtccc cgcgtcgtgc tgcagcggcg tcaagagcct 180
caacagcgcg gcgcggacca gcgcggaccg ccaggcggcg tgccgctgcc tcaagagcct 240

cgccaacagc gtcaagagcg tcaacatggg caccgtcgcc accatccccg gcaagtgcgg 300
 cgtctccgtc ggattcccca tcagcatgtc caccgactgc aacaagatca gctaagttac 360
 gacgaccaag ctaataagcc taccgaacgt acacgtacgt cccgcgcgct gcacgagtga 420
 tgaagccagg ggagaaataa aataaagccg ctgtattgcc a 461

<210> 8173
 <211> 290
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-E2

<400> 8173

ggctctagaat taccgggtcg acgcccgcgt ccggacagac atctgggtctc taggatgcac 60

tctttttgct atcatgtaca atgtttcacc atttgagtat gctcttggtg aatctggagg 120
 aagtctgcaa cttgccattg taaacgggca gttgaaatgg ccaccaggac ccaaacctcc 180
 ttatcctgat gagcttcgcc attttggttaa ctggatgctt caacctgaag ctgcaatgcg 240
 ccctcaaaat tctgatgtgg gtccctcaagt tgacaagctc aatgccaaat 290

<210> 8174
 <211> 477
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-E3

<400> 8174

cgggtccagaa ttaccgggtc gagccacgcg tccgcgagac gaaggctggc agcaccgtga 60
 ctgaaggacc agcagtggtc aattctgcac ctatagcaga cgctagcacg ggatcatctc 120
 ctgccactac taggcccaga cctcagtcac cataccctaa ttatccagat ttcaagccac 180
 catcctcgcc ttcgccgtca gcaccttaat ttggcaagag tacaagaaac cgggtctaga 240
 ggatattaaa gaagttgagt tgttcatatg gagccggcat ctcaccagag gtgcatgttg 300
 tactatgatc gtgacagtgt ggctaagtca ctgtggcgag ttttctgcag cagtaaatat 360
 atgatgtaat gttcattaat tatcaatgtg ctatgatttt ctttttggtg tcttattttc 420
 gatacatgta aatgtcgaat tactagccgt gagaattgag agttcaagcc tatagag 477

<210> 8175
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-E4

<400> 8175

ggtcgacgca cgcgtccgag gacacgtggg tttttttttt taatataata acgaattgca 60
taaataataa taattcgtca tcaccataaa gtattactgt tgtgccaat gtccactgat 120
cacaattttc ctccccgtgc gtgagaagtt agaataggca caagctgcca ggaagagatt 180
cgaaagctcc gaatgagacc atatcacatt ggtgaatgtc taacgaggag ctgcagaatg 240
cttgagaag agcagaaatg caactgcca agaagacaca atggaaaagg caccggaaca 300
tgtggtgcag agaaaacgtc atcaactacc gctctctaag acatgctcgc gatgttcaca 360
gacaaattca ggggcacgtc caacatctgg gggatgatcat gtcgtcaagt ggagatgaca 420
t 421

<210> 8176
<211> 313
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-E9

<400> 8176

gaccacgcg tcaggagta ggcgttgagg catcactctg agacgtcttg tgcgggatta 60
ttccaaagta tgaatgcccg aagtcagacg acatattttg tagataattt gctatgcttt 120
gtgcacttat gtttttaggg ctttctagtt gaaccggtgc cctgtttctg tttttaaat 180
tgcctctatg taagaggctg tgcagtataa gtactagccc ctttgttttc tgcgaccgc 240
attgcatggt ttggttcgaa cttttcgatg tcgtagttct atatgataat acattcagtt 300
gattttgata aaa 313

<210> 8177
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-F11

<400> 8177

acggtcagga attccccgggc cgaccacgc gtcagattct tttgtttaaa aaaatctgac 60
tagatatata gaaaatacta tcaatatttt cattgctgag caattttatt atggaagtat 120
attccatgat caatctagtg atacctaata tacgctataa atattagtac ttctttgtat 180
atatttagtc attttagaag aagagactta attccttaaa atgagttgta aacgaaatat 240
caagtttcat atggaaataa tggccaccct ttttttaaag ggtatggcca cctaaagtgc 300
tggcctggat tacatttgcc acgtccggat tcattcagtt tgtatggcat acagtcatag 360
aacgcggtta accatcttct tacattacac tgcagaactt tggaattgat gggaagctag 420
tgg 423

<210> 8178

<211> 210

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-F12

<400> 8178

cagataacac tttctatatt tccattggca gccagtttca tcacgcaggt atattcgatg 60
atcagtctaa ttagagccgg aatctgctag ggatacaact aactccatga atatctttag 120
tcaattttga cgattctact tacatcctta aaactagttg taaactaact atcatgtttc 180
ataggaaaat aatgactatc ctttttttaa 210

<210> 8179

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-019-Q1-E1-F4

<400> 8179

ggtccagaat taccgggtcg agcccgctc cgacctcaag aagccctcgc tccagcttac 60
ccctacacgt tccttgggtgc aagtcgctgc atcagaagcc cgccgctctc cggttaccac 120
gctgaaaacg ccgattctct tcttcacgcc tacaactttc agactcggca ggcgaagtac 180

gccaaccgtc tcaaacatac gtgatcgctt cctcgcaa atgcccgaga ctagcgttca 240
acgcgtagac cctcagaagt tggggaggat cacgttccag aagtcggaag acttgatcga 300
tgaatgggac atacaatacg acgacgcaga ggggtgatgct gatgctggaa cgctgaaaca 360
ggcagcccat gagcttatga gcacgaatac ccccg 395

<210> 8180
<211> 425
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-019-Q1-E1-G11
<400> 8180

ggctctagaat tcccgggccc acccacgcgt caaatcgtg aaagtgacaa ggacaaaatt 60
atatgtaatg tggatgagaa agatatagcg gagcatcttc ggattagatt agaaaatgac 120
cgtgaagaga aggaacgtcg gaagaaggaa aaagcggagg cacacctcta tactataatc 180
aagggtgcaa gggatgatga cttaaaagct cagataggga aagacatata ttttgatctt 240
gttgatcatg ataaagtccc aagcttccgt atccagaaac agatgacctt tgctcaattc 300
aaggaggagg tagcaaaaga gtttggatt cctacacagt ttcaacgatt ttggctgtgg 360
gccaagcgac aaaaccatac ctaccgacct aacaggccat tgtgtcctca agacgaagca 420
catac 425

<210> 8181
<211> 392
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB189-019-Q1-E1-G2
<400> 8181

ggtcaagaat taccgggtcg acgcacgcgt ccgaccacga gtccgggtccg ttctagaatc 60
tagacacggc aatgaagccc aggcctctcg gttgcggttg cggttgcgtc ncggcggcgg 120
tagggtgctg cggctgggca tggaggccga ctccaggcc gcgcggggga gggagggcag 180
caggggtgtc gcccaagtgc tcgcactcgg cggcggcggc gggagcggta cagtcggagg 240
accgccgccg cgaggtgctg taccgcccgg tggagctgcc cgggacgggg tacgggtcgg 300

agctggaggc gcggtatcgag aaggtcatct acgctgccg cttcatgacc ttcttcggaa 360
 tttgtggctt gctcctcggc tctgtcccat gc 392

<210> 8182
 <211> 146
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-019-Q1-E1-G3
 <400> 8182

cggtgcgacg cagcggtccg acaaaaaatc aggtccaatt aaaaaatcaa aacacagaaa 60
 ataaaccatc aacctcacag ttgcggttgg gggttccatc ccggtggatg tatggtacgt 120
 tggctgggca ataagagggg gcgcc 146

<210> 8183
 <211> 84
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-019-Q1-E1-G6
 <400> 8183

cccacgcgtc cgcccacgcg tccggtcatc gtgtgtggaa ccatgacact ataaagtccg 60
 gaaaaacaaa aaaaaagaag aaag 84

<210> 8184
 <211> 436
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-019-Q1-E1-H1
 <400> 8184

gggtcgacgc ccggtccgc ccacacgtcc gateccagct ctcatttcca atttttctgc 60
 taccaaattc aagaaacgtt ccaagaagaa aagcaagcac aagcaggcta agtctgctat 120
 tcatgaggac tctggtagac atgaaagcag ttaccatcta tcatcggact ttgacaatga 180
 gaagagaaac ataacatcaa gaagcaagag aaagaaagca aactgttctg attcatcata 240
 ttctgattcc gagatagatg ctagaaaagg caagaacaag tcaaagcata agcatacgaa 300

gaaataccag ttagagtctt ctgattcaga atttgatgtc cgtgaagata caaggcggcg 360
tctgaagaga gaccacatga aggagaaaag agatgagtca ccattgccgt tctctaagga 420
tcaaggagac acagaa 436

<210> 8185
<211> 458
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB189-019-Q1-E1-H2
<400> 8185

gggtcgacgc acgcgtccgc ggacacgtgg gcggacgcgt gggcgagggg caccgtgcga 60
agaaggaccc ggcgaacgcg cagaggcaca agatcgaggc cggcgtggca acggcggcgg 120
cgctgggagc cggcgggtac gcgtaccacg agcaccgcga gcagaaggag gccactacg 180
agagcaggca gcaggagcac aggggtgccg acgggcacgg gcacgggcac ggctactcct 240
actactgcga ctgaaacgac tgatcatccc atcgatcgag atatgcatgc agaactcgat 300
atatatacgg cccctagcgc cgtacacgtg cgtgcgtgta agtaaataag agcaaacgtc 360
gtcacgtgtg tgttgctcga tcaactactcc atcgatctac ttantatcgt ctgcaaataa 420
cgactaagcg catgcttctg cagccgtgta cgaatcag 458

<210> 8186
<211> 98
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-019-Q1-E1-H7
<400> 8186

gacccacgag tccgacagat ggtatcccca aggggttctg cattgatgta tttgaggaag 60
ttatcagtca tccgacttcc caggttccca acccctat 98

<210> 8187
<211> 241
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-A7

<400> 8187

gaagtcccg ctcgacccac acgtacgccc acgcgtccgg cagaggacac tactcctcag 60
aactctccct tccctcttgt aggggccaaa agggtcagag atctaggaag aagagaacta 120
gtccccaagg ctagcaagag agcaagctct tctgcaactg ttggcattcg ccctaatttg 180
tatccatccc accggcaggc ctatctctcg agcaccctg ggcattcact tttcggcccc 240
c 241

<210> 8188

<211> 73

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-B6

<400> 8188

attccccggt cgactcacgc gtccgcgcta tgaaagaact tgatgccgtt ggtgaccaga 60
tactggagag gct 73

<210> 8189

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-C10

<400> 8189

agccccacgg tccgcggacg cgtgggtgaa ttcaccccta tgttgtacct actcctcatt 60
agctctgtgg gtatcatagc ttgcttgata accactcttt ttgcaactga tttctttgag 120
atcaaggctg tagatgaaat tgagccggct ctcaagaagc agcttataat ttccactgct 180
gtgatgactg ttggcattgc acttgctcagt tggttagggc ttccatatac attcacaatc 240
ttcaactttg gtgtgcagaa gacggtgtat aactggcaat tattcctatg cgtggcagtt 300
ggctctgtggg caggactagt tattggattt gttacggagt attacacaag caatgcatac 360
agtcctg 367

<210> 8190

<211> 300
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-020-Q1-E1-C8

 <400> 8190

 ggtaccagtt aggaattccc ggctcgaccc acgacgtccg cccacgcgtc cggtagcacc 60
 ctctgacagt gatgttcttc ttccggaaca agcacatcat gattgatctc gggactggaa 120
 acaacaacaa gatcaactgg gccctgaagg acaagcaaga gttcatcgac attgtggaga 180
 ccgtaaacag gggcccccca aaaggccttg tccggttaat gccccaaaag aataatccaa 240
 caagttccgt taccaagaaa gcaagcaatc cccctaagca atccaatggg gaagtttaaa 300

<210> 8191
 <211> 284
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-020-Q1-E1-C9

 <400> 8191

 agccaatgcg tactgaactc ggtatagggc ctcacaaagt tccaggccct attcgagcat 60
 ctcgttctgt gaacgatcta ctgatagtca tcggactatg ccttttatgc ggcccatcag 120
 gtcaggatc cccacggcca ctctgatgag acctgcgatg gcaactgctg aaccatcaac 180
 atccagtctt gttcacgctg cctgaacatc agtgacatga gattcggcag cgtcaccagt 240
 gtcaacaata gcaagggcgc cggatatcca tgctgacacg aaag 284

<210> 8192
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-020-Q1-E1-D1

 <400> 8192

 gaattccccg ctcgaccac gcgtacggct ttgccttctt gcgatatgca actgtagagc 60
 aagcaaggcg tgctgtttca gagctaaaga atccactggg ggggggtaaa caatgtgggtg 120
 ttgctccaag tcatgacaat gatacactct ttgtcggcaa tatctgcaaa acatggacaa 180

aagaacatTT gaaggataaa ctgaagagtt atggagttga aagTTTTgac gacttactac 240
 tggTTgagga taaaacaat cctgggatga atcgtggcta tgccttgctt gagTTTTcta 300
 ctcgacctga ggcaatggat gctttcagga tattgcagaa gagggatgta gtctttggag 360
 ttgatcgtag tgcaaaggTT tcctttgctg attcctaccc tcaagttgat gacgaaataa 420
 tggcacacgt cagaacagta tt 442

<210> 8193
 <211> 313
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-020-Q1-E1-D8
 <400> 8193

ggtactagtt cggaatttcg ggctcgaccc acgacgtcag cccacgcgtc cgcccacgcg 60
 tccggggatc atcaggatac ggtggtgcct atggtggcgg tggcagcggc ggcggcggct 120
 atggtggtgg tcagagtacg agttcttggg actgaactga actctgatta gaagtgaaaa 180
 atgggccaac cttttgggcg tgaaaaatgg gtcaaccgtt atcgattagt ccctgttgga 240
 tggagcgaat gcctgaaatt tgttgcttga catacgatta atcttgcgtt gtgttggtgt 300
 aagggattgg cct 313

<210> 8194
 <211> 378
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-020-Q1-E1-E1
 <400> 8194

ggtcgaccca cgacgtccgg gcaccgacga tgtctacagg accgcggagg cggcgaagct 60
 gtccggaggc caggtggtgc gggagccggg gcccttgcca gggatcaaca ccaacatcac 120
 agccatcctg gaccctgatg gctggaaatt ggtcttcttc gacaacatgg acttcgccaa 180
 ggaactggag taccacgcc aacgacctcg gacgccctgc aacatgatta actcgactg 240
 ctgttggtcc gtaattaaga tgaaagctat cctagtgaat tcccaaattt tcatcatgca 300
 tagaacacag gaccaccatt atatttgca cagaccctga atcaacgatc ccaatcgaat 360

aacaccaggg cggccgct

378

<210> 8195
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-E4

<400> 8195

agcggacgcg tgggatcatg gttaagcacg tactccgac cattcccatc ccatgaagcc 60
atgataatga tgatatgac catggaccat gcatggtgct ctggtcgatg ccgtacgtgt 120
gtccctgata caatactatt ttagtactga tgctagtcac catatatatc gatcgagctc 180
gccactgcga agtctgagat aatgcatgta tgcttgacgg cgagatctga ggaaaaataa 240
tttctatata tgcattgttc gagatggctc tcccttaatt aaaaa 285

<210> 8196
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-E8

<400> 8196

aggtacctag ttaggaattc ccggctcgac ccacgcgtac gcaagaatcc ttgagcttgc 60
tgaagagctg tctatgccac ttgctgctgt gaagtactcc cgtgggacgt tcatctttcc 120
tggcgcacag ccagcccccc acaggagctt ctctgaggaa gttgctgcac ttaaccgcta 180
ctttggcggc ctgaaatctg gtggtaatgc ttatgtgatt ggagatccag caagacctgg 240
acagaagtgg cacgtcttct acgccactga gtaccagag caaccaatgg ttaaccttga 300
aatgtgcatg actggtctgg acaagaagaa agcttccgtc cttttcaaga ctaatgctga 360
tgggaacaca acatgtgcc aggaaatgac aaagctctct ggcatctctg aaatcatccc 420
cgagatggag atctgcgatt ttgactttga accctgtggc ta 462

<210> 8197
<211> 206
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-F2

<400> 8197

agcggacgcg tgggacggacg cgtggggcaa gatgacgtcg tcgacggcgt tcagccaact 60
gttcccttcc gccgctgcgg tatccccctg ccctcgctgc gtctccctgc agctcttctg 120
cgccagcggg ggagttgtcc ctggatggag gagaagatgc cgccgcatgg ccatggtgcg 180
cgcgccacc gtggacgcgg cggcgc 206

<210> 8198

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-F6

<400> 8198

ggaatgcccg ggtcgacca cgacgtccgc tcaccgcgac cgggcggtga gaggtagaac 60
ggccaccaga catcaaccgt gaaggggtgg cgtcaaggca gcgctgaagc ggcggcgacg 120
tcgaggctcg agtccccgtg ccgcgctccg agctaaccta gatgaacata ctcgaaagga 180
tacgtggagg tggcgacagg gcgctgccca cggagcgccc cccgcggccg gagtgtctggg 240
tggagatttc ggagtccgtc tcacggctct gcagcttcga cgccgccggc agcggttacc 300
gcagcatctc tgtaaaagtt attcaggatt ctagacctat acatgacaaa cttggttgat 360
tctttcttga acaaattttt cccatcaggt tatccataca gtgtgaatga aggttactta 420
acttatacca aattccgtgt gctacagcat ttc 453

<210> 8199

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-F8

<400> 8199

aattcccggc tcgaccacg cgtacgcaga gggagaggag aaaataaata atagctacca 60
gagcatttat aagcaattca tcgagatttt gaattcattg ggcgttgaag atgttgaaac 120
ggtcggcaaa ccatttgatc ccatgcttca tgaggctatt atgagagaag aatcatcaga 180

gtttgaagag gggattattc tccaggaatt ccgaaaaggt ttcaaactcg gggaaagact 240
gcttcgcca gcaatgggtca aagtgtctgc aggaccaggc ccctgaaaag tttggagatg 300
atgacccaac agctgtcgaa ggtagtgtgg cacctcaaaa gggtgacgaa gtcgaagacg 360
acggtttttg tgccggcgat gcagaatagg tggctggagc ttgatctgtg aatcaacaag 420
aacaggtcca gaaattttga tg 442

<210> 8200
<211> 346
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-020-Q1-E1-G1
<400> 8200

ttttaaagt gaccgaaaat ttattccgaa gataaccaa caataatagt aggtacgtac 60
gtgacgtaga tagatagata gctagctagc tactggagga gggcttcctc cggcgccgga 120
catgggggag gtgaagcacc tgtgcctggc caagttcaag gacggcgctc tggtggacga 180
cgtgctcaag ggcattgacc acctcgccgc cgggatggac acggtcaagt ctttcgagtg 240
gggccaggac gtgctgaacc agaagatgct gacgcagggc ttcacgcagg tcgtctcgct 300
caccttcgcc tccgcccgcg agctcgccgc ctacatggcc gaggac 346

<210> 8201
<211> 412
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-020-Q1-E1-G10
<400> 8201

cccggtcga ccacgcgta cgagtacggc tagtgaagtc agccacctgc agaacacaca 60
taaggcccgt gttaaaaaaa aaaaaaaaaa aaaaaaaag ctcggcagac ctgactcagc 120
gcctccatta ctctttcag ccggcgggtc gccgcgtccg cctcgtctct gaccaacgcg 180
agggcagtca cctcgctcc agcgccaagg gtctctaccc ccgccttcgg cgctggcgca 240
gccgtcgaa ccgcccgcgc aggcacaact agagcgagcg ggccctcgtc caatcctgca 300
acgcatcaac agattaaaaa aaaaaaaaaa aaagaaaaag aaaaaaagaa aaatcctagt 360

tagaaaacaa ggttgaaatg aaagaaaaaa aaaaaagggg gggccccca aa

412

<210> 8202
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-G8

<400> 8202

aggtacaggt cacggaatgt ccgggtcgac ccacgacgtc cgagaagaag acgagtgatca 60
agtgaacctg aaacttgctg tgtcactggc tggatatagcc tgagtgtgag tgagtgatcg 120
agctagctga gctccgatcc tcgctagcta gctaggatac cgccatacca caagtcttct 180
tcacaagttt aggagtgaca gcaacaagag atctcgatgg cctctgccac cgtgctcaag 240

tcctccttcc ttccaagaa gtccgaatgg ggcgccacca ggcaggccgc cgcgcccagg 300
ccgcccaccg tctccatggt cgtccgcgcc tcggcctacg ccgatgagct cgtgaagacc 360
gcgaaaacga tcgcgtcgcc ggggcggggc atc 393

<210> 8203
<211> 78
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-H1

<400> 8203

acaaaaagga taaaaactta catacacatg catgcaaacg tcataactct gggaggctgt 60
cccctaggat caattcaa 78

<210> 8204
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-H10

<400> 8204

cccggctcga ccacgcgta cggttgctgg gagggttatc atgggtgtta ctgatgaaga 60
gtccagctt cttgacgcgt ttgaagacgt ggagtacacg aggacaagag ttgagatata 120

attggctgac tcttccgaga acatgctggc tgacacttac gtgtggagtg atgcagagga 180
tctcaatctt tatggagaat gggactttga ggagtggaag aaactgcaca tgaaggattt 240
ccttgcgatg acgaacgggtt tcatgcacga gctcgagcag cctgaatcga agacccgggt 300
ggagacctac caggaattca tgcaacaaca ggaacagcct gcgccgggga c 351

<210> 8205
<211> 372
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-020-Q1-E1-H12
<400> 8205

gtaacgggtca ggaattcccg gctcgaccca cgcgtaaggg tccgggacctg tcggttgctcg 60
agggcaccag cttcgtctcc ccaaagtggg tgccgcagct agccgacgca gaggaggtgc 120
tgaagggat aaagcaggag ccaggcgtgc ggtaccgggt gctaacacct aacctcagag 180
ggttcgaggc tgccatcgca gccggcgcgga aggaaatcgc ggtcttcgcg tccgcgtctg 240
aatccttctc caggtccaac atcaactgca ccatcgagga gagccttgct cggtagccgcg 300
gcgtcacagc ggctgccaag aaacacgggc taagcatccg ggggtacgtg tcatgtgtga 360
ttgcttgccc cg 372

<210> 8206
<211> 343
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-020-Q1-E1-H6
<400> 8206

cgggtcgacc cacgcgtacg cggacgcgtg ggcacgcgag cagtcactca cgcacgcccc 60
cagctctctc cttctccctg ctcgctcgct cgccatggac gctccgagca gctggaagag 120
tcctgcgcgc gccaaagtac cggagaagct gcgagatcag agtagttgct tgccgctccc 180
gtgccaccaa attagattgg acgtagctag cagctagctg agccgtagtg cgtagcggca 240
gctaggctgc tagctcgatc gttatagctg cgtactagtg gtgtcgagc agaagcagta 300
gccagcttca gtagccgatc cggtggtaaa agcaactttt ttt 343

<210> 8207
<211> 162
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-020-Q1-E1-H8

<400> 8207

gaagtcccg gtcgacccac acgtccggct cctcctagtt ttaggaacag ggtcaagata 60
tccgagtcac caaatgaagt ttcaaacaga aacagcaggg ctgcggtgct gtctgtctca 120
acaaccctta atgtgggcga tcagtttggc tttccatatt cg 162

<210> 8208
<211> 466
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-021-Q1-E1-A11

<400> 8208

ttcgcggggtc caccacgcg tccgaagagg aatccttgga caaccttaat ctcttctcta 60
tcattacagt gatgtcattt ttcttttgg ccctgtttac ctcttttaca gaagggtgca 120
aaattactcc tacatTTTTG caatctgctg gtctgaatgt aaaccaagtc cttacaaggt 180
gtcttttgcg tggactgtgt ttccatgcat accaacaggt gtcttacatg attttggcga 240
tggtgtctcc tgtcactcat tctgtgggca actgtgttaa acgtgttggtg gtcattgtaa 300
catcagtgtc gttcttcagg acacctgttt ctctatcaa ctctctcggt actgcgattg 360
cacttgccgg agttttctg tactcacagc tcaagcgact taagcccaag ccgaagacgg 420
cttaaatagg gattgtattt tccatctctt tgtgttaatg gagtta 466

<210> 8209
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-021-Q1-E1-A2

<400> 8209

cgggtccagaa ttacgggtc gacgcacgcg tccgaccagc agtccgcca cgcgtccgat 60

atgcagtcga agatactgtt atggcgagac tgaaagtttt gaagtctcgt cctgacaata 120
taacctcttt gagtcaagga agcactaaac accagctaga tggaagcaca aacagtgcag 180
ataatgttga tgacactgtt attgctaggc tgggaatttt ggagtcccat cctaataatg 240
aagccctatt gggacaggaa agcagcaagc gacaactgga tgcgagaaca aatagagaag 300
atgggattga tgctgctgtt atggctaggc tgagaatttt gaagtctcga cctgataatg 360
aaacctcaat gggcgaatcc aacaaggaac agcaagaccc atgtggtgaa caattaaatg 420
gggatgacct tggtaatgtg tccaat 446

<210> 8210
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-021-Q1-E1-A3

<400> 8210

gtcgacctca cgcgtccgag gacgcgtggg gttcgatcta tccatcgatc gctagctagc 60
tgacgaccat ggcgtccctc tcctctgccc ccaccacgc ccttccttc acggccgcgc 120
ccgctcgcgc agtggtcagc aggaggctct tcaccgtgcg tgcctctctc cgcaaggcca 180
ctgccaccgc cgccgtggcc gttgccgcca gcgtcctgct tgccggcggc ggcgccatgg 240
cccaggaggt gctgctgggc gcaggcgacg gcgggctcgt cttcgagccc agccagttca 300
ccgtcaaggc cggcgacacc atcaccttca agaacaacgc cggcttccc cacaacgtcg 360
tgttcgacga agacgaggtg ccgagcgggc tcgacgcctc caacatttcg caggaggagt 420
aactcaacgc gccaggcgag acctactcc 449

<210> 8211
<211> 389
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-021-Q1-E1-A4

<400> 8211

gtgccggtcc taaattcacg ggtcgacgca cgcgtccgaa tcctcacctg ctgcagccat 60
ggcgacctcc gggcgctct ctaccgcgc caatcccacc cagctctgcc ggtcccgcgc 120

ttcgtctgggc aagccggtga aggggcttgg cctgagcatg ggccgcgagc gcgcccagcg 180
gagcattgtg tgccaggcgg cgagcagcat ctccgccgac cgcgtccccg acatggagaa 240
gcggaagctg atgaacctcc tctctctcgg cgccatctcg ttgcccaccg tcggcatggt 300
cgtcccctac ggcgccttct tcgtcnctgc cggctccggg aacgccggcg gcgggaccta 360
cgcgaaggac aagctgggca acgacatca 389

<210> 8212
<211> 439
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-021-Q1-E1-A9

<400> 8212
ttcccggggc caccacgcg tccggacacc acctactgct cccctatccc ctgcctgctg 60
tgttcaactaa cccacctccg cccccggtc cgggtcccc tccccgtcag aaggttcccc 120
agatttatag cccggagtag cggcggcgac ggggcatgcg ctccggagccc aaaccagggtt 180
acaacgagag caaggccatc cctgattccc tgatgccttc ttccttgaga aggcctccgc 240
ggaggcggtc atggagcgag tcgagtcggt attgggcgag gtattcaaca tcgtcaggca 300
gtggcaaaact cagcagcaga agcaggcca ggagttccag gcactacacg acacacactt 360
ggctccagat gagcattcat agtatttcgt cttccatgtc aattaaccta taaactcctt 420
aagaattgac gtctccaag 439

<210> 8213
<211> 387
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB189-021-Q1-E1-B1

<400> 8213
attcacgggt cgacgacgcg tccgacggac agccactgcc agtcacaaaa cactgcacat 60
cagggttcac caagctgagg cggtagcagc agcagcagca gcacggggtc tctagtcacg 120
gtggcattcc agatcctggt gaacaacctg cccaccgcga agctcacctg ggagtcgggtg 180

gagaccgtca gcaacctgct ctctgcacc atccagaaga tcaagtctgc gctccaggcc 240
 agcatcgta cgccttagct attagcggc atttgacatg gattccggcc gccggttctc 300
 agaaaaagg acggagtant cggatgccat gtcaaatgct tagctagagg acgacatgct 360
 gtgacggcgc agatgctaaa caagggt 387

<210> 8214
 <211> 421
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-021-Q1-E1-B10
 <400> 8214

taccggacgt acattcccgg ggccaccac gcgtccgcac acaagcactt cgacgtcaca 60
 cgggcgctgc gcacagacac accaagcgtc ggcaccaatg gcttactacc aggaggtgga 120
 ctactgctcg gaggaggtga ggtcgggtggc cccggccggc ttcggccgcc acggcggcgg 180
 cgtccagcag cacgtcgtca aggagaagtt cgaggaggtc gacacggtct cacgcgccgg 240
 cgccaaccac caccaccacc atggtcacca cggcggccac ggcttcgtgg tgcgcgagac 300
 cagggtcgaa gaggacatca acacctgcac cggcgaggtc cagagcgca gggagagctt 360
 cctcgccaag gctaactgag ccgcccggcg gccggcatcc acgcccgttc ctgcttgctt 420
 g 421

<210> 8215
 <211> 364
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-021-Q1-E1-B11
 <400> 8215

ttcgcgggtc caccacgcg tccgcaaacg cgtccgcca cgcgtccgga aagtacaaga 60
 aaggatacta aatctcgtcg ttaattgaat tcagaataga aagattcaga ataaacaaaa 120
 tttataggat tcaaataatc aaataaagta aaggtaggcg ggtaataacc ttatttatga 180
 caagtttcaa attggtaaag tataccccta ggataaagaa gaagaagggg ctgagaaaac 240
 tcgcaagaaa agttccaacc gatcgtctac ttaaattcga acgggttttc aaagcacaaa 300

aacgcataca tatgtctgtt ttcaaagcac aaagagttct agatgagatt cgctggcggt 360
acta 364

<210> 8216
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-021-Q1-E1-B3

<400> 8216

attcacgggt cgacgcacgc gtccgaccac gcagtccgag catacatcaa tgagccgac 60
actccaaggt ttgtctatct gctagttttc aggttcgttc atgtgagttc tgcgggagtt 120
acaagacctg aaagaccggg gttagattta agcaagcagc cacctgctgt tcgattgaac 180

aaagagcttg gctccatttt aacttttaag ttgaaggag aggatttaac tcgggaaagc 240
ggtattccgt acactattgt aaggccatgt gcattaactg aggaaccagc tggagccgat 300
ctcatgtttg accaggggga caacatcaca ggaaagatat caagggaaga agttgcccg 360
atttggttag cagctctggc aagcccagat gctgtgggca aaactttcga agtcaagagc 420
actgttccat tcagcgaacc gtatgtgatt gaccctgcaa at 462

<210> 8217
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-021-Q1-E1-B4

<400> 8217

attcacgggt ccacgcacgc gtccgaattg gagaatgtac ttatttgcaa agacgccaat 60
gctaagttta attttgaga taaaggttat ttggcatttg aacatataac atgggctcca 120
taccagacca agctgataga caccgagctt ctgaccctg ttgagatcga ctgggtgaac 180
acgtaccact cagactgccg gaagatcttg gagcctcatc tgaacgagca ggagaagcaa 240
tggtgatga aagctactga gcccgtagct gcaagaggct gagccttttc gtcaacgttg 300
caatgcaccg 310

<210> 8218

<211> 359
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-021-Q1-E1-B5

 <400> 8218

 cgggtcgacc cacacgtcca aatcagcaaa gcggcagtcg gtagagagga tcgtcgaaca 60
 gaacagcatg aagatgggtca tcgttctcgt cgtgtgcctg gctctgtcag ctgccagcgc 120
 ctctgcaatg cagatgccct gcccctgcgc ggggctgcag ggcttgtacg gcgctggcgc 180
 cggcctgacg acgatgatgg gcgccggcgg gctgtacccc tacgcggagt acctgaggca 240
 gccgcagtcg agcccgtcgg cggcggcgcc ctactacgcc ggggtgtgggc agacgagcgc 300
 catgtaccag ccgctccggc aacagtgcct gcagcagcag atgaggatga tggacgtgc 359

<210> 8219
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-021-Q1-E1-C11

 <400> 8219

 ttcgcggggtc caccacgcg tacgcaaaaa tgaatggcac aggccatcga tagattgatt 60
 catccactga tgacgataca tgcgtctgtg cttagtttac atcgaccgct tacagcaggc 120
 agccattgac attgattgat gagcacacat cgatcatgag catacgccgg ctggtgcaac 180
 tactacacgc ctacgatctg aacaagtaga gtacagagaa gaccacactg ttcactcgac 240
 ggacggacga acgaatggat ggatctgatg gtagtacaca tgtacggcgt tgctcagtca 300
 gttagttgcc ggggacgaag ttcgtggcgt atgccaggc gttgttggcg acggggtcgg 360
 cgacgtggtc gaagagggttc tcgatggggc cttgcccgtg gacgatggcc tgcacgaaga 420
 agccgaacat ggagaaca 438

<210> 8220
 <211> 361
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB189-021-Q1-E1-C2

<400> 8220

gggccacgca cgcgtccgac cttgattgcg gccctgcctc cctcctctcc ggctctccca 60

ccggccgcca ccgtcgccgc catgcctttc cgattccagt tcccatggct caagaaccca 120

actacaaacg gcggcacctc caacatagac actaaccta gccccgctt cccaacccc 180

ttcctcccta tccaagccca tgtcacctcc ttcctctcct ccttcncccg ggcgctcncg 240

ccgcccgcgc cctgggcgcg cacaactccg caagcttcaa cttcgggggc ctaactaact 300

ccgaaaatga agaccgggtc ccccggtgc ccgttggtcg cgctcgccaa cgccgccc 360

g 361

<210> 8221

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-021-Q1-E1-C3

<400> 8221

ccggtccagc attcacgggt ccacgcacgc gtccgaccac gcatccgcgg acgcgtgggg 60

ccccctgtac cacaccactc cgcgctagct gaggacggta cagcggcaca gaggtgcgac 120

gtacgacgac gacgacgcag gcgccacaca tggcatccca gctctccgcc gccgtgcccc 180

ggttccacgg cctccggggc tacgccgcgc ccagggtccgc ggtggcagcg ctgccgtccg 240

tgaggggtggg caagaagagg tcgtcgtcgc agggcatccg ctgcgactac atcggtccg 300

ccaccaacct gatcatggtg acgacgacga cgctgatgct gttcgcgggg cggttcgggc 360

tggcgccgtc cgccaaccgc aaggcgacgg cggggctgaa gctggaggcg cgcgactccg 420

gcctgcaaac gggtgacccc g 441

<210> 8222

<211> 417

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB189-021-Q1-E1-C4

<400> 8222

gtacgggtcca caattcacgg gtccacgcac ggcgtccgaaa taatcgccac cgctctccgc 60
accgaatcga agaaagcggc gatggcgggc gagaagccgg ctccgggtgcg cgtgctgtac 120
tgccggcgtct gcggcctccc ggccgagtac tgcgagttcg gccccgactt ccagcgctgc 180
aagccctggc tgcggggcgca cgcgcccggc gtctacnccg acgacctcgt cgccgggtccc 240
tcctcgtcgg gcgggtgcggg tggcacaagg aacttgacag ggtcgggaac ccctccaagg 300
cctccggaat cccgaacggc ccagcagccc ccaggggaa gcttccgcct ccaagcccga 360
agagggtcaaa cgctgcctg gtggttaagct caagaaaaag gaaaagcaag aggttgt 417

<210> 8223
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-021-Q1-E1-C5

<400> 8223

ggtataggctc cagaagtccc gggctcgacc acgagtccga ccacgcgtcc gccaaatctg 60
gtgctcgtat tcagttaata ccccaacatc ctccagaggg tggtacattg actgaaagaa 120
ttgtacgtgt tactgggaat aagaagcaga ttgaagctgc aaaggatttg atcaagcaag 180
ctatgaatca gacattttca aagcatacaa atcagtctgg cggatatggc ccacaagggt 240
accgacctca gggcatggc gccgcttctc agttggggcc acgctctcag aatcatggct 300
atggataccc acctagaggt atgcctccac ctcaaaacta caacgcaccc tacgggtggc 360
acccaccgca aggacctca agagggtggc tgggctggga acagaggccg ggcccaacaa 420
cccatccttc gtaacaaggc ggtgggttctg actactac 458

<210> 8224
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-021-Q1-E1-C6

<400> 8224

cgggtcgacc cagagtcgc atcgggtgctg tgcgcatgtg agatctaggg agaggaagag 60
gaggaagggt tgtggggacc gggggtgcaa gatggcggat tcacctgcaa ctacaagaaa 120

agaaagagcg agagattttac agaaaccttc agagccgcgg aggaggagaa ggagattagg 180
 aggatctcta cggcgctgac ggattagtta aggaacgaaa tatcacatcg tgtccggtaa 240
 ccagattcag atgtgggcac catgcgtggg tgcagggcca ggccgagggtg aaagagatga 300
 agagcgtgac caagaatttc cggattttcc atcatttatt ccattcttac ctctctgag 360
 tgcagctaac ctaaagggtct actatgccac acgtttcacc atcatagttg ggataatggt 420
 gtccggtg 428

<210> 8225
 <211> 462
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB189-021-Q1-E1-C7

<400> 8225
 tcccgggtcg acccagcagc ccgaattcag tggtaatggt tcatctgcaa tatatcagaa 60
 caagagctcc accacgcagc agatgggtat gcagaataga agacctacaa ctacatcagc 120
 agctcctacc tateccaata ggatgtaccc tagccccga ccgtacaccc agtatgggaa 180
 ttcagtaaaa actggtcttc cctacgggag taacgggttat gattccagga tatatgggtcg 240
 atgtggtctt ggtaatggta tggataacag gtacaggccc agggcatgta gtggatacta 300
 tggttatggc aatgagagtc aggatggaac aattgagtta aacagaggtc ctagatctgg 360
 ccggttcang aaccagaaat tgtacggtca tactgtcact attgctgtga aagggcagtc 420
 tctcccttct agtgaaagca agaatgatag tgctgtgcct ga 462

<210> 8226
 <211> 365
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-021-Q1-E1-D1

<400> 8226
 ggtccacgca cgcgtccgat ggctactcgc cccctctta ccaagtcctc ctccgggttag 60
 ggctccttac ggttttgtgg aggggcgatg gcggcggtg atgtggagta ccgttgcttc 120
 gtcggcgggc ttgcctgcgc caccagcaac gagtcgctgg agaatgcctt cgctcctac 180

ggcgagatcc tcgactccaa ggtcatcacc gaccgggaga ctgggaggtc acgcggcttc 240
 ggcttcgtta ccttctcctc cgagaactcc atgctcgacg ctatcgagaa catgaacggc 300
 aaggagctcg acggccgtaa catcacctgt taccaggccc agtcccgtgg cggtaggcgg 360
 ggcgg 365

<210> 8227
 <211> 458
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-021-Q1-E1-D11
 <400> 8227

ttcgcgcgtc caccacgcg tacggaagct cctccgcggg geggegaact gctactcatc 60
 gccaaaaccc tagccccgat ccggtcgagg agcactactt cttggcatgg cgggcacccc 120
 tagccaggca agcctcctgc tccagaagca gctcaaggat cttgcgaaga accccgtgga 180
 tgggttctcc gcagggttg tagacgatag caacgtcttc gaggggcagg tcaccatcat 240
 cggcccgccc gacaccctat atgatggagg ctacttcaat gcaataatga cctttcccca 300
 gaactatccc aacagccgc catcagtaag atttacttct gggatgtggc atccgaatgt 360
 ttatccggat gggcgtgttt gcatttctat tcttcatcca cctggtgaag attccagtgg 420
 ttatgagctt gcaagcgaac ggtggacacc agtgcaca 458

<210> 8228
 <211> 447
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-021-Q1-E1-D12
 <400> 8228

ttcccggtc caccacgcg tccgcacat tcgaagcact gtatggacgg aaatgccaga 60
 cccctctcat gtgtccaac gtgggcgaaa aagcactaga aggacctgcc tttgtcaaag 120
 aggcggaaga gaaggttgca ctgatccgca gaaggttact cgaagctcag agtcggcaga 180
 agagttatgc aggcaacagg cggagggaac tccgatttga ggaaggagac ttcgtctacc 240
 tcaaggtttc tccaatgctt ggtgtcagga ggttccaggt aaaagggaag ctagccccgc 300

gtttcgtaga ttcctatccc atcattggca gggtaggacc cgcagcatac cgtctggaat 360
 taccggaatc catgtccgac atccacaatg tgtttcacgt atcccagctc cgcaaagcc 420
 tgcaagcacc agaaagtcac atcgaag 447

<210> 8229
 <211> 135
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-021-Q1-E1-D2
 <400> 8229

gggcatttct tcaaaaagaa ttcattgcaca taagaactgg ataacttgtc gtcgtcacia 60
 atggcatgag ctgctcctga gacatcgctg aggtctctga ctcgcaatat accttctgat 120
 gttcgacgac gtcta 135

<210> 8230
 <211> 327
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-021-Q1-E1-D3
 <400> 8230

ccggtcgtaa attctcgggt cgacgcacgc gtccgattgc gattcgctcg ctcgatccta 60
 gtttctcttc caagaagcgc agcgcccatg gccatggcca cgcaagcctc cgccgccacg 120
 cgccacctgc tggccgccgc ctggggcgccg gcggcgaagc cgccggcagct gagctcgag 180
 ctgcgcgtgc cgtcgtcgtc ctcccgcggg ccggccccgc tccgcgcgtc aaccgaggag 240
 gcggtggagg cgcctaaggg gttcgtggcc ccgcagctgg accccagcac gccgtccccg 300
 atcttcggcg gcagcacggg cgggctg 327

<210> 8231
 <211> 402
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB189-021-Q1-E1-D4

<400> 8231

ggtccagaat tcacgggtcg acgcacgcgt ccgatttgag caatgcttag cagttcatga 60
taaactggag gcctcattgc gggatttgtc taggacagga gacattcagt cttgcaaggc 120
agctcgtaaa gctgctgaca cgcagtttaa ggagctatcg aaagatctga agccactggt 180
ggcgactcta cagtcattct cccagtcctta tcagatattg ccaaagggtan aggacttgat 240
cgtaaaggaa aaaaaaatgc aggaaaaccc aagaacaggg aatccaacct tggccaaaac 300
tttgaaaaaa aactgccccg gcaagatgtt nagaacaaga ttgctttgca acagcaaaaa 360
attgccgccc tgaaggaaga aggtgaatcc cctttaaagt ac 402

<210> 8232

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-021-Q1-E1-D6

<400> 8232

aggacgcgtg ggcgacgcg tgggcaagct cgtaacgaag ggcgcgatct tgctcgtgaa 60
ggtaatgaaa ttatcaaagc agcttgcaaa tggagtgtcg aactagccgc agcttgtgaa 120
atatggaagg agatcaaatt tgatggtttc aaagcgatgg ataccatata aaaaaaaaaa 180
accaaaaaaaaa aaaaaacaaa aaacaaaaac aaccacacaaa aacaacacaa acacaagaaa 240
aagaaaacca aaacaaaaaa aaaaaagggg gggcccccca aagggttcaa acctaagtta 300
cgcttgcatg caacgtcaaa gcccttcaaa aggggtcccca aaattcaatt 350

<210> 8233

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-021-Q1-E1-D8

<400> 8233

ccgggtcgac ccacaagtcc gaccacgcgt ccgctctcct cttgcgattc gctcgtcga 60
tcttaacttc ccttccaaga agcgcagcgc ccatggccat ggccacgcaa gcctccgccg 120
ccacgcgcca tctgctggcc gccgcctgtg cgccggcggc gaagccgccg cagctgacct 180

cgagctcgc gctgccgtcg tgcctctccc gcgggccggc cccgctccgc gcgtccaccg 240
 aggaggcggg ggacgcgccc aaggggttcg tggccccgca gctggacccc agcacgccgt 300
 ccccgatctt ctgcggcagc acgggtgggc tgctccgcaa ggccgacgtg gacgagttct 360
 acgtcatcac gtggacgtcc ccc 383

<210> 8234
 <211> 399
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-021-Q1-E1-D9
 <400> 8234

ttcgcgggtc caccacgcg tccgcacacg cgtccgccca cgcgtccgga tctgccccat 60

cttttgtttg atcttcatca agttgttgat ggtcttaggg aggcagagct tgggaattcc 120
 tttataggaa caacaaagag aggaattgga ccatgctatt cgaacaaggt tacaaggaat 180
 ggacttagag ttggtgacct gcgacatatg gatattcttg gtgcaaaact caacacccta 240
 ttaagagatg cagctctacg cttcaaagat tttgaatatg ataacaagat tctgaaagag 300
 gaagttgaga agtataaaaa gtttgctgaa cgattggaac ctttcatcac cgataccgtg 360
 catttcgtga atcagtcgat tttgcagaag aagaaaata 399

<210> 8235
 <211> 292
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-021-Q1-E1-E1
 <400> 8235

cacgcgtccg ataaaaaac aacaaaaaca aaaaaaatc atcatcaggt taaaggttcc 60
 ttaaggtttt gtaaaaaggg caatggcaga agactgatat gaaatagggt tgccgtccta 120
 gaaggtctta ccttagttac cattaaatag tgcgtgaaga atcttctagc ctcctaccga 180
 aatttacttc attggaaggt cattaaaaac ctggagactg ggaagactcg ggggttacgc 240
 atcttaaccg tcttgcccaa aaacccatt tccaagctg gcgaaaaaat ga 292

<210> 8236

<211> 454
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-021-Q1-E1-E10

 <400> 8236

 taccggacgt acattcccgg ggtcacccac gcgtccgcag acgcgtgggc ggacgcgtgg 60
 gcggacgcgt gggcgcgcg cttttgcaact ccgtgtccgt gatcaccacc acaccgctat 120
 cctgctagct aggtagctga attcggagcc aggctcgagc gagggggggc ggaggcgaga 180
 tggaccacgc ggcggacgcg caccggacgg acctgatgac catcacgcgg cacgtgctga 240
 acgagcagag ccggaacccc gagtcccgcg gcgacttcac catcctgctc tcccacatcg 300
 tcctcggctg caagtctgct gcctccgcgc tcaacaaggc cgggctcgcc cagctcatcg 360

 ggctcgccgg cgagaccaac gtgcaggcaa gtgcgctgta cggctagcta gtttttcctt 420
 cagagagatt gatcgagatg tgacgatgcc gctg 454

<210> 8237
 <211> 452
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB189-021-Q1-E1-E11

 <400> 8237

 ggtccaccca cgcgtccgca cggcagcagt gcccgccccg gagggccccg ccccgatcac 60
 cgtcgctgct ccgcgcgtgc cgccagtcga ggtcggcgcc gagccggcca cgtcatccac 120
 cgccgcgtcc tccgacgggg cggcctcgag cagagtccac cgggtgctcca tctgccacaa 180
 ggagttcccc accggccagg cgctcggcgg gcacaagagg aagcactatg acggggggcgt 240
 cggcagcgcc gccgcgtcca ccgacgtccc ggcggcgccc gccgagacgt ccgccgaggt 300
 cgggagctcc gccgcgcgtg cgttcgacct caacctcccc gccgtgccgg agttcgtgtt 360
 ccggtgcggc aagcccgcca agatgtggga ggaggacgan gaggtgcaga gccncctcgc 420
 cttcaagaag ccccgccctc tcatgaccgc gt 452

<210> 8238
 <211> 402

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-021-Q1-E1-E2
 <400> 8238
 attcacgggt ccacgcacgc gtccgaggac gcgtgggcaa agcaacacct gctttggtac 60
 ggttatgatc gcaagaatgg tgtccattca ctctgtccag ctatatggtc aaaacatagg 120
 agatggttga tgatgtcaat gatgtgtctc aatccaatag cttgttcggt tatggatttg 180
 caattcccta atggggcaact aacatatgtt gctgggtgagg ggatatcagc cagtgggttt 240
 cttccgttat ttggtgggtt gcttcaagct caaggaaaat atcctggaga aacaagaatt 300
 agcttttctt gcaagccttg gcatggaaaa gatctggtct tatggtgaga cccagtatac 360
 aagtcagtgt gtgccctacg tttggaggaa gtgatcctgg gg 402

<210> 8239
 <211> 388
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-021-Q1-E1-E4
 <400> 8239
 attcacgggt cgacgcacgc gtccgaccac gcgtccgctt tgccttgcg agggggcgga 60
 ggggaggtgg tagtggtagg gtatacagga gtgctctgcc catggagaag gcggggcaac 120
 aacgccatgt tatcggcggc ggcggcaaga aggcgcccgc gctggggctg cagaagcaga 180
 actcgtggtc gccggacatc gagcgcgacg aggcgtggga gcgccggcgc aggggcatgc 240
 gccgcggggg cacggcgctg cgccgcgccc gcagcgtcac ggacgacgac ctcgacgagc 300
 tccgcgctg catcgacctt ggcttccgct tccaaccggg gcccgccgcc gccttcgctt 360
 gcgctgccc cggaagaaa cgcctcct 388

<210> 8240
 <211> 407
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB189-021-Q1-E1-F10

<400> 8240

ttcgcggggc caccacgcg tccgaatcct tcacaacctc tgccgagcga gaaattgtga 60
gggacatcaa ggagaagctt gcatatatag ctcttgacta tgagcaagag ttggagactg 120
ccaagaacag ctctcagtt gaaaagagct atgagctgcc tgatggccaa gtaatcacca 180
tcggcgcgaga gagattcagg tgccccgagg tcctcttcca gccatccatg attggtatgg 240
aggctgctgg aatccatgag acaacataca attcantcat gaagtgtgat gtggatatca 300
ggaaggacct ctacggcaac attgtgctca gtggaggttc gactatgttc ccggtatcgc 360
tgatcggatg agcaaggaga tcacttcctt tgcaccaagc aacatga 407

<210> 8241

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-021-Q1-E1-F2

<400> 8241

cgacgcgtcc gaggacgcag tggggcgccc agcaggccat tcttctcgcc ttactccctc 60
acagaaccca gtaaaatatt gctagtcccg ccgtcgagat ggccccacgc cgctgctcg 120
tcctcgccgt cgtcgccctc gcggccaccg ccgcccgggc caactccggc ttcgcggaact 180
ccaaccccga tccgccccgt cacggaacgc cccggcttcg gccctccagt ccaagggcct 240
ccccgcgtc gggcggaacc gcgaagcgt ccgcttcgca agccttgctg ttaggttcgg 300
gaagagctac gaaagcgcg cgagggtcca caagcggttt aggatcttcc ccgagagtct 360
ccagctcgtc cgctccacca atcggaag cctctcctac cgctcggca tcaac 415

<210> 8242

<211> 456

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB189-021-Q1-E1-F3

<400> 8242

cggtcctaaa ttaacgggtc cacgcacgcg tccgaactga atgccccaaa agacgttgct 60
gctaatagtt tgcactaaac tgacatccca ttttgagggtg agactgatga ggatttctct 120

gagactgtta acctcgtaaa gcaatatcaa ctccctcaat acacaacgtt ccgtaaattct 180
acaagttttg gttgttgaca ttcttttctt acatgtacat cgacaacgtg gtttttctaa 240
ggacgccctg ctgctaagat gaagaaggta tcgagcaatg aagtgaaaaa agcggagtcg 300
tgaactgact tcagttttcg aatcattgtc accgtaccaa ggaatggtag gcaaagtaga 360
gaggatctgg atcactgaga tcgcgaccgg tgggtttcgc ttggttgggc aatacaaggg 420
atacatccan gtgctggtaa ttgccctgat agcatg 456

<210> 8243
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-021-Q1-E1-F6

<400> 8243

tcccgggtcg acccacacgt ccgaggacgc gtgggcggac gcgtgggcgg acgcgtgggg 60
gtctggggag cgtgactttg accgtgatcg tcagtatgag cgaagcagag gaagagatag 120
ggtttatgat tacagggaca gaggatcaga acaccgaagc aatcgctaca gaaatgggag 180
ggattctgaa agaggtggac acagatacag gagtgggtgt atgacaaatg accgagggag 240
aatgaggagc agatcacgtt ctccaaccag gcatggctat ggaagatcta gaagtccaga 300
tcattagctg cctagctgga catttagata gttttattca cagttgggac tcatgaggta 360
gacagttccc ttctgctatt tattactgta caatgggttt tattgaagtg tc 412

<210> 8244
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-021-Q1-E1-F8

<400> 8244

cccgggtcga cccacacgtc cgaacgcgca cgcgcacgcg cacggcgccg tgctcagccg 60
gccctgcctc tgctgcgaga tggaggcccg ggcgcaccag aagatggagg aggtggccgt 120
cgagcagctg ccgtcctagg caggcgcaca ccggcgtcct cgctttcttg tccgtccggc 180
cgcccatctg attttcggag ttgcatctat ctcatcta atggatccat ccatccatcc 240

atctaaagca gtattatgta tgcattccaca tgggtataaa tctggctgac cgcac 295

<210> 8245
<211> 493
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-021-Q1-E1-G1

<400> 8245

acgctgcagt gcggtcctaa attcacgggt ccacgcacgc gtccgaccac gcgtccggga 60
caaggagggc atcccacccg accagcagcg cctcatcttc gccggcaagc agctggagga 120
tggccgcacc ctggcggatt acaacatcca gaaggagagc actctccacc tgggtgctccg 180
cctcaggggt ggcattgcaga tttttgtgaa gacattgact ggcaagacca tcaccttgga 240
ggtggagagc tctgacacca ttgacaatgt gaaggccaag atccaggaca aggagggcat 300
tccccagac cagcagcgtc tgatctttgc gggcaagcag ctggaggatg gccgcactct 360
cgcggtactac aacatccaga aggagagcac ccttcacctt gttctccgcc tcagaggtgg 420
tatgcagatt cttgtaaaga ccctgactgg aaaaaccata accctggagg tttagagctc 480
gggacacatc gac 493

<210> 8246
<211> 237
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-021-Q1-E1-G10

<400> 8246

attcgnccgt ccaccacgc gtccgatcct tgcaagccct agtataattc aaggtcttga 60
gttccccggc ctggacctgc cagattctgc tgggaagtt gtagttttgtg gagttcttgt 120
tctacaagga cagcgtgtgc taaatatgat tgcacgattt atccaggcga aaaggcagag 180
aggatgatcat ggagtcaaag cacaagggga tggctgggtg ctgactgttg ctctgat 237

<210> 8247
<211> 366
<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-021-Q1-E1-G12

<400> 8247

attcgccggt ccaccacgc gtacgcacaa gtttgattga ttgctatttg ctaccaacaa 60
aaaatagcta cacacagggt ctgcgttgcc ttgcattcaa agcatttttt attttattgt 120
aaagaatttg ttgttattta aacttgataa gtcttgacaa gaaagttcca atggacttca 180
aaattgtaaa aaagattaac aaccccaagt tcaattagcc tggaaataac cttaaagggtg 240
aattaccaag gttggaaaaa gttaattcaa ttttaaattt ttttcccga caaaaaatgg 300
ttggatccga aattaattta aaatggaatt aaaaggaaaa gttgcccttg ggcaatttca 360
aattat 366

<210> 8248

<211> 497

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-021-Q1-E1-G3

<400> 8248

cgctgccggt gccggtccac aattcacggg tccacgcacg cgtccgacca cgcgtccgcc 60
cacgcgtccg ggcgaccag tgaccgagat gctgttcac atccgcggca agctggaaag 120
ctccacgaca gacggtggcc ggacgggttt ctttaactcg atcacctga agcccggcga 180
cttctgtggc gaggagctcc tcggatgggc gctcgtcccc aagcccaccg tcaacctgcc 240
actgtccacc cggacggtga aggcggttct cgaggtcgag gcgttcgctc tccaggccga 300
cgacctgagg ttcgtcgcca gccagttcag gcgcctccac agtaggaagc tgcagcacac 360
gttccggtac tactcccacc actggaggac ctgggccgcg tgcttcatcc agcacgcctg 420
gcgccgcctg aggaggagga agatggccaa ggacctgagt ctgaggaggt ccgtctcgtc 480
cacgggaccg tacgaag 497

<210> 8249

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-021-Q1-E1-G4

<400> 8249

attcacgggt cgacgcacgc gtccgaggac gcgtgggagg acgcgtgggc tggcaggaac 60
cagaaaaatt ttggaattca tggactgggg tgactatggg gcgaaggga ccttcattaa 120
tattggagca gtaggtgcgc agggcggtgca gatcgtgacg acggggagcg caggggagcc 180
agcgttgctt gggaagatgg gtctgccgtg ggggagtcca ggcattgctac agatgagcac 240
aggcgagccg tggggtagag caaaccaccg tcgtcgttgc tgaatgggaa ggccgttggc 300
cccaataacg caaggcccg tctggggaag gcaagggcaa aacggggcct gttgggtccga 360
ccaaaaaagg ctactgggga acttgggtacc ggtgaatccc ccggttcccc aagccaagcc 420
aca 423

<210> 8250

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-021-Q1-E1-G6

<400> 8250

tcccgggtcg acccacacgt ccgaccgagc gagttcttgg ttgacctctt cctcttcgga 60
ccacctccaa ggctcttggg ttagcttgcc actctcacca atcaagtttt catgtctgat 120
ctcgacattc agatcccaac tgccttcgat cccttcgctg aggccaatgc tggggactct 180
ggtgcggcag cagggtcaaa ggactacgta cacgtgcgca tccagcagcg taatggtcgc 240
aagagcctga ccaccgtcca gggattgaag aaggagttca gctacagcaa gacctcaaa 300
gatctcaaga aagagttctg ctgcaatggg acagtgggtcc aggaccaga acttggacag 360
gtcattcagc tccagggtga tcagaggaag aacgtctcga atttcctcgt ccaggccggc 420
attgtgaaga aggagcacat caagattca 449

<210> 8251

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-021-Q1-E1-G8

<400> 8251

cccgggtcga cccacgacgt ccggcattgt gaagcccggtg tgctcgcagg atgtccttaa 60
agcagcggta agcgccatgg cttctgtgac ggagatgttg accatcatgt cttccctttc 120
athtagtgga caggcgacca tctgaaggcc aagctgaaga tgtcatatgc tgttgcgctg 180
tcatgtcccg aacatatttg tgtttttttg ggaaagaaac atacaatttt ttgttctcat 240
tctagtatcg tctacctatg tcaaactaca atatgatagg acccttgcca aataattgtt 300
tcgtttgctg gtattttctca tctttgatgc taaaaaaaaa ggacatatg tgtaagaaag 360
ttcaagggtg cacatcacac caatat 386

<210> 8252

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-021-Q1-E1-G9

<400> 8252

ttcccgcgtc caccacgcg tccgcagcaa tccacacaag cacttcgacg tcacacgggc 60
gctgcgca ca gacacaccaa gcgtcggcac caatggctta ctaccaggag gtggactact 120
gctcggagga ggtgaggtcg gtggccccgg ccggcttcgg ccgccacggc ggccggcgctc 180
agcagcacgt cgtcaaggag aagttcgagg aggtcgacac ggtctcacgc gccggcgcca 240
accaccacca ccaccatggt caccacggcg gccacggctt cgtggtgcgc gagaccaggg 300
tcgaagagga catcaacacc tgcaccggcg aggtccacga gcgcaggag agcttcctcg 360
ccagggtctaa ctgagccgcc cggcggccgg catccacgcc cgttcgtgct tgcttg 416

<210> 8253

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-021-Q1-E1-H1

<400> 8253

ggtccacgac gcgtccgacc acgagtcggg ttttctggc agcaagcagc tcaactgaagg 60
ggcaaagtga caaagagaag tatgagaagt ccagaaaatt gaaggggtcat atacaaagaa 120

ttcgtgagaa ttatacaaaa gatttcaaaa acaaagatgt gacgaggagg caaatagctg 180
 tggcaacata ctttatcgat aaactagccc ttagggctgg caatgaaaag gacgacgatg 240
 aagctgatac tgttggttgc tgtacgctga aggttgataa tggtacatgt atgcctccaa 300
 atcagattca gtttgacttt ctgggtaaag attcaataag atactttaac accgtagagg 360
 ttgaagagct tgtgtacaac gcaattgacg gtttccgtgc tggaaagaag ccaggacaag 420
 atcatttgac aagattgata cat 443

<210> 8254
 <211> 386
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-021-Q1-E1-H11

<400> 8254
 ggggccaccc acgcgtccgc acacgcgtcc gccacgcgt ccgccacgc gtccggccaa 60
 caactaaagg caggcgcggc acaccgcgac accgtaccgg cctagacact tggagaaagg 120
 agaagcagcg cagcggcatg ggcaccagtc ccgtcatccc tgcgacgatg ctcgtcgtcg 180
 ctctccttgt cgctagtagt actgtctgct tcggcgccac cgccaccgac accgacaccg 240
 acggcgccat tcgtctcccc agcagctctg gtgctgttgg tcgaccgtgg gagtgcgtgtg 300
 actatgtcac caaggagccg tttatcaagc cgccccggtg gcgctgcaac gacgtggtgg 360
 acaagtgtc cgccgactgc caagag 386

<210> 8255
 <211> 350
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-021-Q1-E1-H2

<400> 8255
 ggtcgacgca cgcgtccaac ggtgacttcg ccagggcctc tggggactac gccattgtga 60
 tcagccacaa ccctgacaac ggcacatcga ggattaagct gccctctggc gccagaaga 120
 ttgtccccag cagctgccgt gccatgattg ggcaggttgc tgggtggaggc aggactgaga 180
 agccgatgct caaggctggt aacgcgtacc acaagtaccg tgtgaagagg aacagctggc 240

ccaaggtgcg tggtttgcc atgaaccctg tggagcatcc caacggagga ggtacccacc 300
 acaaaatggg tcagcctcca acggtcgccc aaaaccttcc cctggccaaa 350

<210> 8256
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-021-Q1-E1-H4

<400> 8256

cgcgctccgag gacgagtggg tttttttttt ttattccatg ccattatgcc aagtagatgg 60
 tcacagttgc taaagggtaa ttagccttct ttttaccgtg gccttacaag tataggtagg 120
 agcactatat cacaacactc ttacatctac gttactacgt atgggtccgga tctgactcag 180

ggacgatccc tcctccttac cacttcaact gtcctatgaaa gcgatgccct tctgaatgct 240
 ctcgcccagt tccttctttg ccgcttcaag acaagctccc tcgaatcaat caaggggcaa 300
 accggaaggt ttcctccggt ccaacaaggg caaacctcaa tttccttga aagaacggga 360
 attccggcaa ctccgatgca acatatgagc aatccacgaa tccaac 406

<210> 8257
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-021-Q1-E1-H6

<400> 8257

gtcccgggtc gaccacacg tccgcgagc cgtgggcaaa accagagcca aagccagagc 60
 ctaagcccga accaaaacca gagccaaagc ctgagcctaa acccgaacca aggccagaac 120
 ctaagccaga gccaaagcct gagccgaaac cgaaaccaga tccaaagcca gagccacaac 180
 caaagccaga gcctaagcca gaacaaaaac cagagccaaa gccagagcct aagcccgaac 240
 caaaaccaga gccaaagcct gagcctaaac ccgaaccaag accagaacca gaaccaaagc 300
 cagagcctaa acctgaacca aaaccgatac cagaaccgga gccacaacca aagccagagc 360
 ctacgcctga ttcaaaacca gagcctaaac ccgaaacata accagacccc caaccaaacc 420
 agaacct 427

<210> 8258
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-021-Q1-E1-H8

<400> 8258

ggctctagaag tcccgggtcg acccaaactg ccgcggacgc gtgggaggac gcgtgggccc 60
gctccccctt cccattggcc tccacgatgg cgctccgcct caacgacgtc gcgctctgcc 120
tctccccgcc gctcgccgcc cgccgctgcc gcagccgcag ccgcagcagc ggcagggttcg 180
tcgcccgtcg ctccatgacg tgcgcgctct ccaccaaggt cgagaataag aagccatttg 240
ctcctccaag ggaggtacat gtccagggtta cacattcaat gccacctcac aagattgaaa 300

ttttcaagtc acttgatgat tgggctagaa ataatatctt gacacatctc aagccagtcg 360
agaagtgttg gcagccacag gatttcctcc ctgaaccagc atctgaagga tttcatgatg 420
aagttaacga gctcagagaa cgtgcccaagg aaatccctga tg 462

<210> 8259
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-021-Q1-E1-H9

<400> 8259

ttcccgggtc caccacgcg tcagcagacg cgtgggctcg gaatcagact gacaataccg 60
tcctcaggac aaggcacctc agaagccctt ctgctccgcg ccgcctcctt gaccccgctg 120
gccggcgagc tgctcagcgc ggcttttttt tgcattccaca atgccgcagc ttggcacatg 180
ttcattgcct ggagctgcaa tctatggcac ttcaactagg agatttggag gtttggagtt 240
tcagcagcat aaagttaatc acatctcatt tggctcgaaa gcgtctgtta aagcaacatt 300
gaaaactgtg agatgcaatg ccaactcaac aaaaagcgtc caaaagaaat cttcaagtgc 360
aactattcag cgtgataaga aaggaaatgt acaagggcca aaactggatg a 411

<210> 8260
<211> 327
<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-A1

<400> 8260

taccggtcta ggaattcccg gctcgaccca cgcgtaagcg gacgcgtggg tgcgtgcccc 60
ttttggaact cctgcctacg agctaggttg cggagtgtgg tttgctcgtt agagcttatt 120
ttcggacatc caaaaaacat gcttcctatg tgggatgatg gttatcttta tatttgatg 180
ttaattagtc tctttgctgt taaatttcgt gtaagttggt cctgccgatg gagaatcgag 240
cagccccctt tttttgttct atcaactatg ctgtaatgct ggctatgttt cggcaaaaaa 300
aaaaaaacaa aaaaaagggg gggcgct 327

<210> 8261

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-A6

<400> 8261

gaattcccg ctcgaccac gcgtacgcc acgcgtccgc ccacgcgtcc gctctgtcac 60
tgacgatggt tgaacgtcgg atcgtttttt tgagaagaac ctatttgag ctggaacaga 120
gacgacctcg accaccgtcg aatgggccat gtcgctgctg ctgaacaatc caggacact 180
cgagaaggca cgagaagaga tcgacgccgc cgtggggcac tcccgttgc tcaacgcggg 240
cgacctgccg cgtctcggct acctcaggtg catcatcgcc gagacgtgc gcctgtacct 300
cgccgcgccg ctgctgtcc cgcacgagtc gtcggcagac tgcaaggctc gcggctacga 360
cgccccgcc ggcacggcgc tgctggtgaa cgtgtacgcg attcacaagg aaccggctg 420
tttggaagga gccgggcagg ttcgtgccg ag 452

<210> 8262

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-A7

<400> 8262

ttccccggctc gacccacgcg tacgcccacg cgtccgccc cgcgtccgcc cacgcgtccg 60
 cttatctgct aatgcatgga gtagttggtc tcatcatggg tactgtttgg agattggaga 120
 ccaactggat tgtctccatc atcctctgct ccattgtccg tgccttggga gcttgtgggtt 180
 acgtgctagt gtcacggttt ctgataagag aaaatattct cgcgtgata actgttaaca 240
 ttcatgcttc gttgacatac atcctgacgg cagctggcgt gaacacaatt ccttccatgg 300
 gcacaatata tctactcttt gggacactgc ttctacttaa ttgtgggttc ctgc 354

<210> 8263
 <211> 245
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-022-Q1-E1-A8

<400> 8263
 ggtactagtt aggaattccc ggctcgaccc acgcgtacgc ggacgcgtgg gcggacgcgt 60
 gggatcagca tacctgctgc tgccgccgcc gccgccagtt gtttgctgtg gaaagctaga 120
 tgcacgcgtg ttgtaaagga acctgaagcg ttgcacgggt catgattcat gcatggccag 180
 cctgctgcct gtaacaacaa actagtattg atcttattga gaccggaaac tgtattgcac 240
 atggt 245

<210> 8264
 <211> 481
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-022-Q1-E1-A9

<400> 8264
 ccggtccgaa attaccgggg ccacccacgc gtccggagtc tgcgtcgtcc acggagatca 60
 gggatcggcg gcgggggtatg gcgagggagc gacgggagat aaagaggata gagagcgcgg 120
 cggcgcgga ggtcacgttc tccaagcgcc gccgcggcct cttcaagaag gctgaggagc 180
 tctcgtgct gtgcgatgcc gacgtcgcgc tcatcgtctt ctctccacg ggaaagctct 240
 cccagttcgc cagctccagt atgaatgaga tcattgacaa gtacagcaca cattctaaaa 300
 acctggggaa agcagaacag cttcacttg acttgaactt agaacatagc aaatatgcaa 360

atttgaatga gcaacttgtg gaagcaagcc ttcgactcag gcagatgaga ggtgaagaac 420
 ttgagggatt gagtggtgaa gaactccagc aattggggaa gaatctggaa tctggtctgc 480
 a 481

<210> 8265
 <211> 391
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-022-Q1-E1-B10
 <400> 8265

gggtccagcc acgcgtccgc attgatatcg ctctgtggaa gtttgagacc accaagtact 60
 actgcacggt cattgatgcc cctggacacc gtgacttcat caagaacatg atcactggta 120
 cctcccaggc tgactgtgct gtccttatca ttgactccac cactggtggt tttgaggctg 180
 gtatctccaa ggatggccag acccgtgaac atgctctcct tgcgttcacc cttggagtga 240
 agcagatgat ttgctgctgc aacaagatgg atgcaaccac tccgaaatac tccaaggcac 300
 gttatgatga gattgtgaag gaagtctcat cctaactcaa gaaaattggg taaaaccctt 360
 ataagaatgc ctttgttccc atttccggtt t 391

<210> 8266
 <211> 383
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-022-Q1-E1-B12
 <400> 8266

ggtccgaaat taccgggtcc acccacgcgt ccgcacacgc gtccgcacac acacgcacac 60
 aactatcgt ccagcaagct cgctgttgct tgccaccac cgctcagct cgatcgcaac 120
 gcgcttgga tggtgtccga ggtgtggcta tcgcccgcgt ctgcctccc atccctctcc 180
 aacgcaccac ctgccttacg ctccaagcct gccaccacaa ccgcctcttt gctctctccc 240
 tgteccccgc ctgcccgcgc cctgcctgtg ctgctgttcc gtgcgcccg ccgacttcgc 300
 gccaccgagc agcaaggcca ggttcaggag caagatgacg aggtggtgga caggaacatc 360
 ctcccctact gcagcatcga cag 383

<210> 8267
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-B5

<400> 8267

aattcccggc tcgacccacg cgtacgcca cgcgtccgcc cacgcgtccg ggcaatatgc 60
catttggtcc agcaatgaac tctactgctt ctgttgatga tcttatcatg aatctgcact 120
ctgaccaggg aagtaactcc ttgggtgct cagacttggg ctgggagaat gataccaaga 180
caccagacat cacttccatt gctcccattt ccactattgc ggaaggcgac gagtctgcat 240
ttgtcgacag caattcaaac agtcatttg tgcttctgc cctggagaac agtgctgttg 300
atctcactga tgggctgaca gatttagaat cctatatgag gtttcttctg gatggtggtc 360
caagtgattc agttgatagc cttctgaacc ttgat 395

<210> 8268
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-B6

<400> 8268

aattcccggc tcgacccaca cgtacgcca cgcgtccgcc cacgcgtccg gtataaaaat 60
gattgtacag agagtttacc tgtggaccat ctgagaggag atgtggcctt gtttaciaat 120
gtatgttttt ccttcatatc ttgttgatgt attgcatttt gtgcatcctt gatagaacca 180
gggctcattg tcagcaattc ttgttacaat catggtgcat tcgaaacggt tgctctgtaa 240
atgtaatgat tattaagtaa ttatataagt tctgtaacaa taattttaaa tatacatttt 300
attggtgtag tatgtcttac catttcatca aatgggtcga ctaatttcat ttctaaaaat 360
gtcttttgct caatcttggt ctgcatctcg ttcaatgtcc gaat 404

<210> 8269
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-B7

<400> 8269

aattcccggc tcgacccacg cgtacgcaaa gaaagctaca aggatatttg ttccttgtga 60
tttcatttct tcctttggag tagctatctt cacttctaata gtacgggtcc caaggaagaa 120
atgaaatcac aaggaacaaa gaaagctaca aggatatttg ttgctcgaat tccacagtca 180
gtggacgagt cgatgtttcg taggcatttt gaagcttttg gagaaattct tgatctttac 240
atgccaaaga gtctgtggac agcatcatgc aagagtcaca tgagcttgat ggcacaacag 300
tagttgttga tcgcgcgact ccgaatgagg aagatgtaag ataccccccg agtagaccat 360
ct 362

<210> 8270

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-B8

<400> 8270

ggtactagtt acgaattccc ggctcgaccc acgcgtacgg atcacacatt ggccttgcag 60
ttgcactggt gcttgtcat aattagttca tcagcaaaca ccacacattg gcaccgagggc 120
tagcgtgcct cctagctctg gccatggcag ccatcgtcgt cgcgccgtgc acggcccaga 180
actcgccgca ggactacgtg gacccgcata acgcggcgcg cgccgacgtc ggcgtcgggc 240
cgggtgtcctg ggacgacacc gtggccgctg acgcgcagaa ctacgcggcg cagcgccagg 300
gcgactgcaa gctgatccac tccggcgggc cctacggcga gaagctcttc tgggggtccg 360
ccggcgccga ctggt 375

<210> 8271

<211> 359

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB189-022-Q1-E1-C10

<400> 8271

ccacgcgtcc gcgaaagaca cgatactcgn ctggcggcct cgtacggcag cgatgcccaa 60

ggctcgatcat tacgggtcccg ttcgtgcgtt cgaagatgca ctaccacaga acgttgctct 120
 tatatatata cactttacta tgtttactgc gtcagacaac atttctatag ctcttgtaac 180
 cccatcgcca gcgatggagc tggctaatat tcaatatcat gcaaatacagg cgctgcgtc 240
 tgtatgacaa cagcggatat cgagcctgaa ggcaccaatg ctgctacgta cacgtcacca 300
 gactgcgatc tacggcatgt gattcaatcc tgcgggaact gtgatagcat caggttccc 359

<210> 8272
 <211> 417
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB189-022-Q1-E1-C12

<400> 8272
 ggggtccagca cgcgtccggg cttatcctcc ccctcttacc aagtcctcct cgggttaggg 60
 ttccttaggg ttttgtggag gggcgatggc ggcggctgat gtggagtacc gttgcttcgt 120
 cggcgggctt gcctgggcca ccagcaacga gtcgctggag aatgccttcg cctcctacgg 180
 cgagatcctc gactccaagg tcatcaccga ccgggagacg gggaggtctc gcggcttcgg 240
 cttcgttacc ttctcctccg agaactccat gctcgacgct atcgagaaca tgaacggcaa 300
 ggagctcgac ggccgtaaca tcaccgttaa ccaggcccag tcncgtggcg gtggcggtgg 360
 cggcggtggc tacggcggcg gtcgcggcgg cggcggctat ggtggcgggc gccgtga 417

<210> 8273
 <211> 374
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-C4

<400> 8273
 cccggctcgc cccacgcgta cgaagacgac ttgtttcatt gattcttgaa gagatcgagc 60
 ttcttttgca ccacaaggtc gaggatgtct tgcaactgcg gatcaagctg cggctgcggc 120
 tcaagctgca agtgcggaac gaagtaccct gacctggagg agacgagcac cgccgcgcag 180
 gccaccgtcg tctcggcgt ggccccggag aagaaggccg cgcccagatt cgtcgaggcc 240

gcggcgaggc cggcgaggc cgccacggc tgcagctgcg gtggcaactg caagtgcgac 300
 ccctgcaact gctgatcaca tcgatcgacg accatggata tgattattat ctatctagct 360
 tgtggtggtg gttg 374

<210> 8274
 <211> 453
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-022-Q1-E1-C5
 <400> 8274

gaattcccg ctcgacccac gcgtacggaa aaaagaagca ggccaaggac gagctggacc 60
 gccagaagca ggcggagaag aagcggcgcc gacttgagaa agcgtggca aactcggctg 120

ccataatctc ggagctggaa aagaagaagc agcagaagaa ggaagaacag caaaggctgg 180
 acgaggaagg tgctgccata gcagaagcag tcgctcttca tgctcctcata ggcgaggact 240
 ccgatgaacc ctgccatttg atgctgaaca agcaccatat aagggtgcaac cattggggccc 300
 cctcggctgc ttttgaattc accgtggacg cacagcccg cgaggtgtac ccgtctgagg 360
 atggactggt atgcggcagc catgcgtatg ctccaagagc cccaagggg aagcgggctg 420
 attgggggat tggacaggca ctgccatgct ggg 453

<210> 8275
 <211> 329
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-022-Q1-E1-C6
 <400> 8275

aattcccg ctcgacccacg cgtacgaccc agtcccgcc ttgtgctagt aagtagcaag 60
 cagtgttacc ttttggattt ttaaccagca gctaagttcg cggcatttta gtcctgtaa 120
 gcggtaagca gctctgtagc gtgagataga tggccaagcg ccggtacgta cgtgtagtgt 180
 ctggtcttct cactgagtgt actataaaga gttaatatag gagctgaccc tgtgaaccg 240
 cgtgatggat gcatatgctt agtgcaaaaa aaaaaaaaag atgaaaaaaa aaaataacaa 300
 aagaaaacaa aaaaaatcaa agactacaa 329

<210> 8276
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-C7

<400> 8276

ggtacaggcc acgaattccc ggctcgaccc acgacgtacg ctagcaacat agaaagcaca 60
atagtgtacc aacaatggca gccaaaatat ttgtcctcct tatgtctcctt ggtctttctg 120
caagtgtgc taccgcgacc attttccgc aatgtctaca agctcctata gcttcccttc 180
ttccccgta cctctcacca gcggtgtctt cggatgtga aaaccaatt cttcaacct 240
ataggatcca acaggcaatc gcagctggca tcttaccttt atcaccttg ttcctccaac 300
aatcatcagc cctattacag cagttacctt tgggtgcatth attggcacia aacatcaggg 360
cacaacaac 369

<210> 8277
<211> 464
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-C8

<400> 8277

ggtacagggtt aggaattccc ggctcgaccc acgcgtacga gccgaagaag atgcaaactt 60
gaataggcaa tcaaaaccag ccattaacaa acttatgaag cttcctctgc tcatagatgt 120
tctctccaag aagaatcttc agcaggaatt tcttgaccac ggagttctca ctcttctaaa 180
aaattggctt gagccattac ctgatggaag catgccaaac atgaatattc gatctgctgt 240
actgaaatta ttaactgatt ttccaattga cttggaacag tatgaccgaa gagagcagct 300
taagaaaagt ggtctgggaa aggtcattat gttttgtcc aaatctgacg aggagactac 360
tgcaaatagg aaattggcta aggagctggt tgaataattg aatccaacia ttattcaaca 420
ggagcacgag atttgaggac atgaagagat atgatgatga aaga 464

<210> 8278
<211> 434
<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-C9

<400> 8278

gcgtccggag agctccttgc tgcggctgct tgctcccctc atctctagcc tgtacactgg 60
ttggagtggg tgccagtgtt ctccccacct gctcctctcg atccactcca tcccctttgg 120
ccatgggtgt gcaagcatac atctacggta attgcatgct tctcctgcct tgaagcggaa 180
gccttagcct tagcctgccg cctgggggaa accttctgtt tcgccgtgc cgctgctgtg 240
gtataaaggt ggaaggctga tccgtcgacg gacggagtcc cggcggaggg aagattgctc 300
cgtcgcccg gtttcgcggc caagaagggt gcctacgcgg tggaaagggg ccgggccggg 360
ccgttaagga atcttgcctc gacgccaatc cctcctctgc ccctcgattt tcgggcgggt 420
gtcgggtgctg cctt 434

<210> 8279

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-D10

<400> 8279

ggggccagca cgcgtccgca tgtatccaag ctttagatat tgaatccact gaaggacaaa 60
tatatgagat taactcagtt aagggtgaag ggcccgaac tgaccagag aaatgggagg 120
agctattcag atctgctcgg tcagactagt ggcattctgc aaagcgtagt aacgtaatgt 180
aggaatatgc atcgtaatac aatgtaatcc atagagtgc gccctaattc aatagtcact 240
gaacagtagc gatcatgtag agaataattg gtttgtgtac atagtatgag cattcatata 300
tgacgattat acctcctaaa agtgatagtt tttgttgga aa 342

<210> 8280

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-D12

<400> 8280

ggggtccagcc acgcgtccgc ccacgcgtcc gactagtgat tcaactgaaca aaaaaaatt 60
 acaagaagga atcgagagca aatgctatct tcaaccacac tccgaccgcc ggcgccggcg 120
 ccggcgccgg cacacctcac catctgctcc tgcgccgcag cgtggcgggcg tgcgccggcg 180
 gtgcgcgcgg tgcggaacta cgactccatc ccgaagcggg agcccttcag ctccagccgc 240
 agcatcctcc acgagttcct caggcaggac aagcccctca tccagcgcac caaggaccag 300
 atcacagatt attgcacggc catcgaaggc gatgagtgtt gcagctgttg ggacgcttac 360
 tttgaactga ataaacttga gcaagagctg cccaaagacg aaa 403

<210> 8281
 <211> 372
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-D2

<400> 8281

ttcccggctc gcccacgcg tcagcagacg cgtgggcaag aaccaggcgg acccgccgcc 60
 ggccgaaggc ctgcccctgg accgctgggc cggggccagg tacgccgcg tgcgccgctt 120
 cgggggcttc gtggcgagc tcgacgttcg ggagcaggcc gcgcgcctcg aggccaacct 180
 ccagggcacc cgggtgggccc ccgccgtcaa cgacgcgcgc agggccgacc cggcctcgcc 240
 ctacaccgtc gcgcagtaca actcgccctt cgagttcacc ggcagggtca acgagatctg 300
 gatgctcttc gacgccgacg acgacgccag tacttcgtga tgcgattcca agcgtgtctt 360
 gggggcaccc ac 372

<210> 8282
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-D4

<400> 8282

tcccggctcg cccacgcgt cagcacacgc gtccggcgcg atgtccacca tcagcagcgg 60
 cgtgaactcc gccgtggcgc agcaggctcg tgtggggcg tgcgtgctcc ggctccactt 120
 ccacgactgc ttcgtccaag gctgcgacgc gtccattctg ctgaacgaca cgtccgggga 180

gcagaccag cgcggaacc taactctgaa cccgagggcc ttcgacgtcg tcaacagcat 240
 caaggcgag gtggaggcgg cgtgcccggg cgtcgtctcc tgcgcccaga tctcgcgcgt 300
 cgccgcccgc gacggagttg tcgcgctcgg cgggccttcg tggaccgtgc ttctgggcag 360
 aagggactcc accggttcgt tccctaacca agaaagccaa ctccaacttc ggacttcaac 420
 cct 423

<210> 8283
 <211> 363
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-022-Q1-E1-D5
 <400> 8283

aattcccggc tcgaccaca cgtacgcgga cgcgtgggcg gacgcgtggg cggacgcgtg 60
 ggctttcccc gtcggcgcct cccagattt ggccgcccgc gccgctgacc caggttgtct 120
 tgatggcgcc cgctgtagaa gccgtgaagg agacaggcac cttccagaag gttcctgcct 180
 tgaacgaaag gatactgtca tccatgtcca ggaggtctgt tgctgcacac cttggcatg 240
 atctggagat aggtcctggt gtcaccaacca tattcaactg cgtcattgag ataccaaggg 300
 gcagcaaggt taaatatgaa cttgacaaga aaactggact gattcaaggt ggacgtgtgc 360
 tgt 363

<210> 8284
 <211> 382
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-022-Q1-E1-D6
 <400> 8284

aattcccggc tcgaccaca cgtacgaagc aaccacgccc ccacgcccag tccaaccca 60
 acccggaag ctggcgcgcg aggcggccga cgcgagcgcc cgcaagcgca aggcggggga 120
 cggcgccgag gtccccgacg ccaccgctc ggacagagtg gccgcagcgc cgacccccgg 180
 agaggacgag gccatgggag acgttccaca ggccgcccac gctgcgggag gtggagaaga 240
 gtgggccccg ccggacccta accctagccc gagcctcggc ggctgctcgg accccgtgtc 300

ggtggagctc tccatgggcg gggactacta ccgcgcctgc tgcggcgagc ccgatcccga 360
catccccgaa gggcccaagc tg 382

<210> 8285
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-D7

<400> 8285

ggtactagct acgaatgccc ggctcgaccc acgacgtacg gcaaataagt gatctttctg 60
ctaattgggac tgccattgaa agtaatgata ataccagcc acctgtgcaa gtgccccaaag 120
aggatccaaa gaaggcccta cttgttgctc ctccccctcc aactcagatg gatgttacta 180

agaaatctta tgcattccatt gtcaagggtca tgaaggaggg cccaccaact ccagttgtca 240
aaacaacatc gtcagtttcc aaacagaagc cagctcctaa accagtgtcc acggctgtcg 300
aaggcctaga gaaaccatct gagaaacctc cccaggctat tggaaccggt gatgggattg 360
tttgccataa caac 374

<210> 8286
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-D8

<400> 8286

ggtactagct acgaattccc ggctcgaccc acgacgtacg ctctctcccc tcttaccaag 60
tcctcctcgg gttagggttc cttagggttt tgtggagggg cgatggcggc ggctgatgtg 120
gagtaccgtt gcttcgtcgg cgggcttgcc tgggccacca gcaacgagtc gctggagaat 180
gccttcgcct cctacggcga gatcctcgac tccaagggtca tcaccgaccg ggagacgggg 240
aggtctcgcg gcttcgggctt cgttaccttc tcctccgaga actccatgct cgacgctatc 300
gagaacatga acggcaagga gctcgacggc cgtaacatca ccgttaacca ggcccagtc 360
cgtggcggtg gcggtggccg ccgtggctaa cgggggcgtc cccggcgccg gcggttatgg 420
tggcggttgc cgtgacggcg gttatggcgg cggtggcggc ta 462

<210> 8287
<211> 81
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-E3

<400> 8287

ccacgcgtaa gccaatgcaa ccataatata tgattcaaaa caactggaaa aaacaagtcc 60
agcaattttc accttgtaat g 81

<210> 8288
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-E6

<400> 8288

ggtactagct acgaattccc ggctcgaccc acgacgtacg caaggattta ggtggcggtta 60
atcttttggc tgttgacatg tagtgaacaa gtcaagtaca agtagcaatt gacaagatca 120
caagaacctt ttggctctca tgaacacttg atatggatct tttggttctc atgtttttac 180
tcaatgggtga acttgtaatg aacttgtaac agatgtgctt ttgggagcgg tttgcacatc 240
tgttgatgcg cacctatggt gtaagcacat tgtatgtggt aatttggaag tttggatggt 300
taatgtggtg aactagtggc gccatgctag ggggtggtgga cactaactgg atattaatct 360
agctgtgaac atctgatgtc tgatgtga 388

<210> 8289
<211> 407
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-022-Q1-E1-E7

<400> 8289

cccggctcga cccacgagta cggggaagag cggaatggtc agaagctagc agcttcaatg 60
gtagagtacc agggccagtg ggtgataaga gaggcagtgg ccctctgaag agttctgctg 120
gagtgcggat gcgagaggca cagcctacca atgttctctg ggttggtttt ccaggttctt 180

atagagtcacat tgatgaggag gcacttaagc atgccatgtc agtattcggg gtcgttacga 240
agataaaagt tttccagaca aggcagtatg cttttgttga gtttgcaaata gttgcggaag 300
cttgtaatgc taagatgaat ctanatgggc atcttttcaa tgattccagg attcagattc 360
ttttctcaaa cagtgggctt gcaacaaaca aattggggcca accaaca 407

<210> 8290
<211> 394
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-022-Q1-E1-E8
<400> 8290

aggtactagt caggaattcc cggctcgacc cacacgtacg attcattcta ggaagtctca 60
ctctggccct aatcatgctt tcatgtataa gggtagagaca tctagctcta ggcaatcaac 120
ccatgctaag ttgcctagaa agaaagctcc tagtgcata aatgatcata atatttcatt 180
taaaactttt gatgcatctt atgttttgac taacaaatcc ggcaaggtag ttgccaaata 240
tgttgggggc aaacacaagg ggtcaaagac ttgtgtttgg gtacccaaag ttcttgtatc 300
taatgcaaaa ggacccaaaa ccatttgggt acctaaaatc aagaactaaa cttgttttgt 360
aggtttatgc atccgggggc tcaagttgga tact 394

<210> 8291
<211> 383
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-022-Q1-E1-F1
<400> 8291

tcccggctcg acccacgctg acgaaaaatc actacgtcca ttttgagaat ggtgggtcag 60
gagccctgca atgtgggtcc tccaacgtat ttgatcccc acttgaaggc caagctacca 120
ataactatgg tgggtgtgaaa gccgggagca actcaggcag caacaagggg cagaacaatg 180
ggagtacggc tgctgcaaata gctggactgg cagaaacgga gatacaggcc atggacaaaa 240
gtggagttgg aggtggcaat ggcaatggga gtggcagtgg cagtggcaat gacacatatg 300
tcagacggct tgctgcgaac atgacaccgc gacaagcaca gctaaagaaa tatagagaga 360

aaaagaaaga ccggaacttt ggg

383

<210> 8292
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-F5

<400> 8292

aattcccggc tgcaccacg cgtacggtgg ttgcttcagg gcagcgggca acatggtgga 60
attgctgtgg cctttttgat gcttttactg gttcaggag atagatgaag cgttagaact 120
tgaagtcaag aagacagaaa atgcggtgac gttcagttca aagctgatga gcagctgtaa 180
ctagactttg tcacatgaat gatgaagcag aaggattccg gataacatcg agctgatgtt 240
ttcacttctt tcttccctgt gtctctgcat ctgtgcaaag ttacatcccc tggtcgcggt 300
taatattctt aatttcctta gcacccccaa cgcctagtcg tgctgtctag gtactggtct 360
tgtagcatag taagtgttga agtgggttca ccgttaaaga tgttttgggg gttccggctt 420
tttttt 426

<210> 8293
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-F6

<400> 8293

aattcccggc tgcaccaca cgtacgcgga cgcgtgggcg cgcacgcaac gcaaaaacaa 60
gcacaaacac gcgcgatccg atctgggccg gccaaagcagc caccatcca tggcgactag 120
ggtttggtc accgccctec tgcttggttt cctcgtcgcc gcttccccct tcaccggccg 180
agttgctaga gctgaatccg aggaagatgc tgctgcagct gaggttggtg aaggggctga 240
tctaggtatt gtgggtgatg atacacaggt ttccagtgat ggacctttaa gtctgtctc 300
tgggtgtagag acagtagttg tcttcccaaa aaatgctggc aaaattgtac tatcagggtga 360
agaaactgaa ttactagttg gtccgcaaaa tgaccgtgaa tccattttgg atgggtggtg 420
cgggtcca 427

<210> 8294
 <211> 352
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-022-Q1-E1-F7

 <400> 8294

 aattcccggc tgcacccacg acgtacgcca tgcgctccgc cgggacggcc acggcgatct 60
 cctcgctgat gctgccggac actatcgctg tgctaggctg ctgctacgta ctgtaagact 120
 gttatgtttg tgctcactgc acgatcacta tcacgaccta cttactatat acatgtggct 180
 gctcggttgg accggagctt ggtgacgtgg aaatcttggg ccactagatc acgtggtttg 240

 accgcgagaa aatttcacag aattcgttcg gacaggtaca ggatagtaca ggtgctgacc 300
 agaaatagac acagtagttg tcttcccaca taaatgctgg caaaattgta ct 352

<210> 8295
 <211> 71
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-022-Q1-E1-F9

 <400> 8295

 aaaaggatca aagcttactt acacgtgaat gcaacgtcaa acctcttcaa aagtgtcacc 60
 aaaattcaat t 71

<210> 8296
 <211> 307
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-022-Q1-E1-G2

 <400> 8296

 ttttgaattc tgaaaaaaaa taagtatgga ccaccataat gatgtacaca aaccgaaggc 60
 ctctagcctc taggagtgtc gctgttggtta cacgttagaa cagggcgctc cgattaggag 120
 cgaaaacaca tggggagaga ggcataccac ccaccacctg tgggggtgggg gtatcctttc 180
 atgggagtag tagagatctg ctggagacac cgttccacta tgttctcttg aggatgtagc 240

cgacgacgat gccagaggagg cccacgacaa acaagaacgt gatggagaaa ccgctgccgg 300
 ttttgct 307

<210> 8297
 <211> 447
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-G6

<400> 8297

aagtcccgcc tcgaccacaca cgtacgcctc gccgctgctc aactgcgggc gcgcgccggc 60
 tgcggcgccg tcggctcgagc acctcgccgt ggtttcgccg ttgttgctac cggcagtggc 120
 ggcgcctagg catgggcccgg tgctgtgccg cgccatgtcc gagggggacc tcgccgcgcc 180
 gtcctgtccc aagaaggacg atggacacgg gagggcgccg aggctgtccc tgtccgcgtc 240
 cttgtcctcg tccgcctcca tcttcgtcga ggaggaggac ggcgagggcg aggaggagga 300
 ggacctggtc gcggctcgccg gggccggcgt ggacgtgccg ctgccgctgc gtcggctgct 360
 gacgaacacg gggctggacg tgtccgccgc cgccgggctg gggttccttg aaccagggcg 420
 tcgggggcag cggcgggggc gggaagg 447

<210> 8298
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-G7

<400> 8298

ggtaccaggt aacgaattcc cggctcgacc cagcagctac gccacgcgt ccgcccacgc 60
 gtccgtgagg atggagtcac ccgctacctg aaatctgggt gtctactaat tggcaggaca 120
 attgcagtat tcttgacact gacactagct acatccctgg ctgcaaggga agggcctgtt 180
 ccaatggcgg gctatgagat atgcttgcaa gtgtgggtta caatttctct gctcaatgat 240
 gctctagccc ttgctggcca ggctctactt gccagcgaat atgcaaaagg gaattacaag 300
 caagcccgcg cggttttata cagagtctct catgttggtg gtgtgactgg ttttgcctt 360
 gctgcttctt taattgttgg atttgggatc ttggccttgc tgtttacaga tgattcaacc 420

attttaaa

428

<210> 8299

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-G8

<400> 8299

aattccccgc tcgacccacg cgtacgcca cgcgtccgc cagcgtccg cccacgcgtc 60

cgagagccga aagaagttga agaggcaacg aagggtgaga aaaagaagaa gactattaca 120

gagaaatatt gggattggga actagccaat gagacaaaac ccatatggat gagaaatcca 180

aaggaaattg agaacaccga atacaatgag ttctataaga agacattcaa tgagtttttg 240

gaccctcttg cccacactca cttcacaact gagggtgagg tggaattcag gagtgttctt 300

tatgttccag gcatggcgcc tcttagtaat gaggagataa tgaaccccaa gacaaaaaat 360

atccggctat atgttaaaag aatcctcatc ccctaagaac ttggatgggtg aacgggtccc 420

aagatacttg agctttgtga aagggtgtggt gg 452

<210> 8300

<211> 78

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-G9

<400> 8300

ccaagggggt ccaacgctta cgtccgcgtt caggtcagtt cacagctctt ctatagggtc 60

ccccaaattc aattcccc 78

<210> 8301

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-H5

<400> 8301

aattccccgc tcgacccacg acgtacgcg ggccgagatg ctcgtcgtcg gcagccatgg 60

ctacggagcc attaaaaggg ctgttcttgg aagtgtgagc gactactgtg cccatcacgc 120
gcactgcacc gtgatgatag taaagaagcc caagcagcac aagcactgat caatgccgac 180
tgatcactac gtgtactgca aataatatgt actactgcaa agttatgtgt gcgtccgtcc 240
gtttgtgaat aattgggtca tcaaccatca catcttcggt tgcttctaca agtatccgat 300
ccaatccttc tacgtgtgga ttgggattta caaataattg attgttctct gaacctgaaa 360
acaatgtatt tgtattaatg tgttggaaac attaaatggt gttgcaactt cctttcc 417

<210> 8302
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-H6

<400> 8302

gacccacgcy tacgccacg cgtcagccta ctcgtcggca gccatggctg cggatgcatt 60
agtcgggctg ttcttggaaq tgtgagcgat gactgtgccc atcacgcca ctgcaacgtg 120
atgatagtat atatgcccac tcatgacagt cactgatcac tgccgactga tcaactacgtg 180
tactgcaaatt attatgctgt agtgctaagt tatgtgtgcy tccgtccgtt tgtcaaacact 240
tgggtcatca gtcacacacat cttcggttgc ttctagacat gtccgatata atccttcac 300
gtgtggattg ggattcacta aattttcatt gttcgtaga 339

<210> 8303
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-H7

<400> 8303

ggtaccagca aacgaattcc cggctcgacc cacgcgtacg cccacgcgtc cggcgagcca 60
tcgacacgat cgcgagcgca agcacgtacg ttgtcggaag ctcaagttag aagaagcacc 120
agtgcctgat cgatggcggc ccaggctctc ctctccggcc ggcagctgt gggccgcccc 180
gtgcagtcgg cegtctctag gtcgtcggcg aggaaggcgc ccttcgtcgt cagggccagc 240
tccagccctc cagccaagca aggtgccgac aggcagctgt ggttcgcgtc caagcagtcc 300

ctctcctacc tcgatggcac gctgcccggc gactatggct tcgacccgct gggcctctcg 360
gacccggagg gcaccggggg 380

<210> 8304
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-022-Q1-E1-H8

<400> 8304

aattccccgc tcgaccacg cgtacgaagc cttttgggaa gcagctcagg gacaaatacg 60
tggagacaca gcagcttctc ctccagatcg ctgggcacaa ggatattctt gaaggcgatc 120

cattcctgaa gcaggggctg gtgctgcgca acccctacat caccacctg aacgtgttcc 180
aggcctacac gctgaagcgg ataagggacc ccaacttcaa ggtgacgcc cagccgccgc 240
tgtccaagga gttcgccgac gagaacaagc ccgccggact ggtcaagctg aaccggcgga 300
gcgagtaccc gcccggcctg gaagacacgc tcctcctcac catgaagggc atcgccgccg 360
gcatgcagaa cactggct 378

<210> 8305
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-A12

<400> 8305

ggtcgaccca cgcgtacgga attctcgcaa tgacagtata cagatagaca cgacagagat 60
tctttttata tgtggtggtg cttttgtgga cttggaaaag actatttctg aaaggcgcca 120
agattcatcc ataggatttg gggcagccat tcgtacgaac atgagaagtt ctggagctag 180
ctgtccaatg gttacctcat ctttattaga atctgttgaa agtggtgatc ttgtaagata 240
tgggtctaatt ccggagttca ttggtcgttt gccattcta gtaagtttgg gagctctgaa 300
tgaatgtcag ctcggttcagg ttctgacaga accaaagaat tcactttcca tacagtacag 360
gaaaatgttt aacctgaaca aagtttagct gcactttac 399

<210> 8306
 <211> 379
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-023-Q1-E1-A8

 <400> 8306

 caggtaccta tctagaattc gcgggccgac ccacgcatca gcattgattc ttgacgagat 60
 cgagcttctt ttgcaccaca aggtccaaga tgtcttgcaa ctgcgggtca agctgcgggt 120
 gcggctcaag ctgcaagtgc ggcaagaagt accctgacct ggaggagacg agcaccgccg 180
 cgcaagccaa cgtcgacctc ggcgtggccc cggataacaa ggccgcccc tacttctctc 240
 aaggcgccgt tgactccggc aaggccttcc agggctgcag ctgcgggtggc aactgcaact 300

gcgacccctg catctgctga tgacatcgat tcagtaccat ggatagtggg actatccatc 360
 tacacttctg ggggtggtct 379

<210> 8307
 <211> 99
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-023-Q1-E1-B10

 <400> 8307

 aaaaggatcc aagtttactt acccttcaat tcaaattcac accccttcaa aaatgccacc 60
 aaaatccaat tcaactggcct tcctttaaaa ccccttttc 99

<210> 8308
 <211> 402
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-023-Q1-E1-B11

 <400> 8308

 tcgacccacg cgtacgcca cgcgtccggg aagagaggcg cgcaagcggc ccggtctcat 60
 ggcgcccttc cccgcccctc gctcatcgtc gccgggtggc gccgccgagg cgccgtcgct 120
 cggtcgcgtg tccggccacg catctgcggc gccagcaag aggcgcgtcg tctcctgcag 180
 ggccgtcagc agcaggctgc tgtccatcat cagggtgcag cagagcgca agaagggcgg 240

cgggcccggac acatggctgg gccgcgcggc catggtcggc ttcgcctccg cgatcgccgt 300
 cgaggtggcc accggcaagg gcttctcca ggtagggacc gtcgtagagt atgagtatca 360
 acgtaacatc gacagcagcg agggacgccg aaacgcgtgc gt 402

<210> 8309
 <211> 300
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-023-Q1-E1-C10
 <400> 8309

tcgacccacg cgtacggcac gccatggcct cctcgcctc tgccgccgtc actgcccctt 60
 ccttcgccga accattccca gccgcgcgcg tggtcataag gatgtcatte aacgtgagcg 120
 cctcacttgg catcgccatt ggtaccatca ccgttccaac gcgcgacaca tcaactattag 180
 ccagcagtga cacggcctac gacgttctgc ttgtctcaca ttatagacgt ctgcgtcgtca 240
 aacacagcat gacaatttcc aggtttgtta cactatcaca ttcagtccca tggctcgcgt 300

<210> 8310
 <211> 351
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-023-Q1-E1-C2
 <400> 8310

gggccgaccc acgcgtccac ccacgcgtcc gaggccccct ggtccgactt ctgcgagacc 60
 atgaacgcca cccatctgga gctgcccagg aacctgcacg ggtcaccctg gaatgtggcc 120
 aatttccgcc aggcattgaca ccacaacccg ttctcacatg ccgagctgca actgcagaac 180
 tttctgatcg tgctcttgtt cccaggtcgc accgacagtc ccatcaacta gtcgtctgag 240
 aatatggacg tctactcgcg cctcgcctc gtcaacagtc tccggtgaca caccgattacg 300
 acctccagtg agcgagaatc atcgttctct gacagtctgt atgctcttat g 351

<210> 8311
 <211> 150
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-C3

<400> 8311

cccacgcgctc cgaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaggaaa aaaaacaaaa agataaaaaa ataaattaaa cataaaaaaca aaagtaaaaa 120
atcttcaaaa atgtaaccaa agggtcactt 150

<210> 8312

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-C5

<400> 8312

aattccgggc cgacccacgc gtcagaataa gacgacttgt ttcattgatt cttgaagaga 60
tcgagcttct tttgcaccac aaggctcgagg atgtcttgca actgcggatc aagctgcggc 120
tgcggtcaa gctgcaagtg cggcaagaag taccctgacc tggaggagac gagcacgcc 180
gcgcaggcca ccgtcgctct cggcgtggcc ccggagaata aggccgcgcc cgagttcgtc 240
aaggccgcgg cggagtcggg cgaggccgcc cacggctgca gctgcggtgg caactgcaag 300
tgcgaccct gcaactgctg atcacatcga atgacgacca tggatatgat tattatctat 360
cgatcttggtg gtggtggttg aacaataata atcgacgccg agctgggatgc catacatagg 420
tactgtgtgg tgtgtg 436

<210> 8313

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-C9

<400> 8313

tacggaccgt aattcgcggg gcgacccacg cgtacgcgga cgcgtgggcg ccaagtgaa 60
gagcaagatg ctttatgcaa gctcaaacca aaaattcaag agtgggctca atggcattca 120
ggtggaactg caggctactg atgcaagtga aatcagcctt gatgagatca aggatcgggc 180
tcgctaggca tcatgatcat gcatcatgga ctcggcctac tactgtggat ttgtatgcc 240

ttatagactt ggtgctgtga aagactgctt gatgatttgc gggtttggtg ctgtgtaaaa 300
aaaggtccca tggctcccag aagaccatga aggttcggat ctatcatgta attccttggt 360
atctgccaat tatgtatgga ctatggacat gtgttgcgct gttcagctta atactaccaa 420
taagtaatcc ataatgtccc ttcc 444

<210> 8314
<211> 452
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-023-Q1-E1-D5
<400> 8314

ggtaccagtc aggaattccc gggccgaccc acgcgtcagg gcggaggagg gggccccgg 60
cgggtggaagt ggaacgcgcc gatgcgcaag ttccaggact ccatcaaggc cctccaggcc 120
gacatcgatc acgccaatgc gatggcgctc gaattcctga gggactacga cggctcggtc 180
atccagatgc ggggtggcgta cagcgccgtc gcgcatttcc tcctgcagtg gaccgactgc 240
aagctcggcg gcgcgctcgg cctcctcaag gttatgctat acaagggtgtg cgcgacggc 300
tcgtcggcgc ttcttgattg ggagatggag gccagcatca gggagttcta cggcgtcatt 360
ttcccgtcgc tgctgcagct tccgagtggc atcaccgagc tggacgacag gaagcagagg 420
aagctctgcc tgaagaaatt caggagcagg ga 452

<210> 8315
<211> 301
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-023-Q1-E1-E1
<400> 8315

gaccacgcg tccaataggt tgtgccaaca aacagaggct ggcatatgtt tcttccttgg 60
ttgctgactg tgactaaact gccagtatag gttatcgtga tggtacaagt ccctgtttta 120
actaaaatac atagggaatg tgcagcttgt acttcacgt tttatttttg gtagttgaaa 180
tatggactta tgaatcatct ttagttaagt tgtacagtgc tggttaactat ttatactagt 240
ttttgagcgg ctatttgtac ttgttgaagg agtaatacat agtggtgata ttggtggaaa 300

a

301

<210> 8316
 <211> 366
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-023-Q1-E1-E11

 <400> 8316

attcgcgggt cgacccacgc gtacgcggac gcgtgggaaa actcagtggc tgcccgatac 60
 acaaaaagggtg catcagggaa tgtgacaaca gaagatgatg gggatgcatcc ccaacggatt 120
 gagccttaag acggccttca tgctacgtca tgtctcttcc acaggggtcaa ttcattcttca 180
 ggtaactggc actgcattca gagtctaata catggaaaac cctgagcatt atcaacgtta 240
 acccctttac actctaacc cttttcacca tcagctgttg cagataattg cgctacactt 300
 atcgcatctt aaaaaatttg ctgacgctaa tctggtagat agaccctccc tgtacctggt 360
 catataa 366

<210> 8317
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-023-Q1-E1-E2

 <400> 8317

tccgggcccga cccacgcgtc agtgaagcac agcggaggct tgactttcag cttggatggc 60
 acctagatcc actatatgtt ggtgattacc cagaaagcat gcgtcaacga ttgggcattg 120
 atgttccaac cttctcagag aaggataaag agttcatgag gaacacaatt gatattgttg 180
 gagtaaatca ttagacttca agactcattg cacatctcta gaatccagac gatgtttatt 240
 tctaccaagt gcagcagatg gagcgaatag atgaatggag tattggtgaa aaaattgggtg 300
 aaagggctgc atctgaatgg cttttcagac ttccttgggg cttcataag tcaacttactt 360
 atatagcgaa gaagtacaat actccagcaa tttatgttac tgagaatggc atggatgaag 420
 aggacgatca atccg 435

<210> 8318
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-E4

<400> 8318

gggccgaccc acgcgtcagc ccacgcgtcc gccacgcgt ccgcccttac aaaactggtg 60
cttgcaattc ggttgatatt gcatgtctct ttggcacgat atggacaaag gaaaatagag 120
aaggatgacg ctgctgtggt gcagcaagct gtggttatct acaccaagga gtttttgaag 180
ttcactgaat tcattggtga ggtctttgtg aatgcacat tctttatata tgctgaggat 240
gcaggtgccg tggatgcaag gaaaagtgat gagtacaaag aaactattat tccagctgga 300
aagacacatg aggtcatttt gagtgttgaa gctgtaaact catacatcgc atgggacttt 360
tccttgcaac aaggggccct caacatggac attggctttc atgtggagta cattagccct 420

<210> 8319
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-E5

<400> 8319

attcacgggt cgacccacgc atcagcattt atccagcctg atctctacag atctgattga 60
taccatgagc gacgaattct cgaaaagggt ttttgactat gttgatgaga ggaagaacct 120
agacatcgat cgtctcgctg aggctgtcgc gattccatcc gtttcctcgg atttgaaaa 180
tcattctggtc gacatcaaca cattgatcgc ttggactaag ggtcatatag agcgctcgg 240
tggattgacg gagctcgtca ccacccccgc atgcaccgaa tatcgccctt tgctccaat 300
tctgtgcggt tctttcggtt cgaacccccca taaaagact gtatgtgtgt atggtcactt 360
ggac 364

<210> 8320
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-E7

<400> 8320
 ggtaccggtc taggaattcc cgggccgacc cacgcgtcag gagctgggta agcttgctac 60
 agagaggggc cgcaaagcta ggcctaactt gaaggtgggc atttgtggag aacatgggtg 120
 agagccttca tcggttgctt tcttcgcca gactgggctg gattacgttt cttgctcccc 180
 tttcagggtc cccatcgcta ggctagctgc agctcagggtg cttgtctgag gggctgcctc 240
 ctggttgcca gcctgctggt ggtgcactctg gtgattaata atactactat gacagagcca 300
 tatgctctgt gaagagtatt agtagcagcg ctcataaaag ctacagttcc atctattttc 360
 tcagctatgt aaaacttcca aactgttcat gcttaaaact gagggttttc gtgggtgtg 418

<210> 8321
 <211> 327
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-023-Q1-E1-F1

<400> 8321
 cgggtcgacc acgcgtccgc ggactcgtgg ggcagccaa ggccgggatc gctctgaacg 60
 accacttcgt caagctcgtc tcgtggtagc acaacgagtg gggcgacagc acacgcgtcg 120
 tcgacctgat ccgccacatg ttcaagaccc actagacggg ttttttcccc ctgcttctca 180
 tggatgggtg cagcttgtgt acgccgacaa taaatctgga tcgcgcgtgc ctctgggtcg 240
 ccaggttcat gctgagtcag gacatgtttt gcacttttagc atcccttctt gctaccatct 300
 gtgaaagaac cgctcgctaa tacggga 327

<210> 8322
 <211> 460
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-023-Q1-E1-F10

<400> 8322
 ttgcgcgctc gaccacgcg tacgcccacg cgtccgcca cgcgtccgtg acaaggtagg 60
 gatgaagcac atcaagaagt acgtcgaaat gatgacgcac gagaacgtct ccagagctgt 120
 gctggttctc cagcagaacc taactccgtt tgcgaagtcg tttctcatag agctggagcc 180

gaagatccat ctggaaattt tccaggaggc cgagatgctt ataaacatca aggaacatgt 240
 ccttgttcct gagcatcagg tgctcacaaa cgaggagaag aagacgcttc tggagcggta 300
 caccttgaag gaaactcagc ttccaagaat acagatcacg gatcctattg ctaggtacta 360
 cggcctgagg cgaggccagg tcgtgaagat atcaggccca gcgagacggc gggcagatac 420
 gttacatacc ggtacgttgt atgacagaac ggtcagacac 460

<210> 8323
 <211> 359
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-023-Q1-E1-F11

<400> 8323

taccgtatcg gaattcgggc gtcgaccac gcgtacgcc acgcgtccgg catgtcgtcg 60
 ttgaccacaa aagtgtttgg agtgccccag ccagggtggg acagggttta ttacatcatt 120
 aataatattc aagagttagt aaccgctctg acccaagagc atccggtggg gctgatgttc 180
 tgggctggact ggaaccagcc aagcaaggcc acgtactggg atctggccat cgctaaaaag 240
 gatgaggccg tattctgcca gctggacttt gataagttta aagatgtcgt agagaagtgc 300
 agagtgaagg ctctgccgac gttcctcctg atcaaggagg gcgaggatca gcgcaagggt 359

<210> 8324
 <211> 401
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-023-Q1-E1-F12

<400> 8324

caggctacga caagaccaag tacaccggca tcgggtccgc catcgagtac gctgtgtgcg 60
 ctctcaagggt ggaggtcctc gtggtcattg gccatagctg ctgcggtggc atcagggcgc 120
 tcctctccct ccaggacggc gcacctgaca ccttccactt cgtcgaggac tgggttaaga 180
 tcggcttcat tgccaagatg aaggtaaaga aagagcacgc ctcggtgccg ttcgatgacc 240
 agtgctccat tctcgagaag gaggccgtga acgtgtccct ggagaacctc aagacctacc 300
 ccttcgtcaa ggaagggctt gcaaatggga ccctcaagct gatcggcgcc cactacgact 360

ttgtctcagg agagttcctc acatggaaaa agtgaaaaac t.

401

<210> 8325

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-F3

<400> 8325

gggccgaccc acgcgtccac ccacgcgtcc gcatgccagg tgttataccg gttggctttc 60

tgggggggta ttcaaggttt gtggcaaaat gccaaagctct ggaaccgaaa tcctttggag 120

aatgatttcc gtattacaat ttggggggagg gaacttttagg acatcctggg ggaaatgcac 180

ctgggggcagc agetaategt gtggccttttag aagcctgtgt acaagctcgt aacgaagggc 240

gcgatcttgc tcgtgaagggt aatgaaatta tcaaagcagc ttgcaaattg agtgctgaac 300

tagccgcagc ttgtgaaata tggaaggaga tcaaatttga tggtttcaaa gcgatggata 360

ccatat 366

<210> 8326

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-F5

<400> 8326

ggtaccagtc aggaattccc gggccgaccc acgcgtcagg cacgtgcaac cacggcggca 60

cggggaatctc cgcgagagagg cgctgcata cgctgatgct ggacagcgtc ggcggcggcg 120

gtgccgagga ggctgggtggc ggcgggtgacg agaggggtgg atgtggcgtg gcgaagccca 180

aggtcgtggt gatggactgc gcggagaggc ggtacacggt ggtgatcctg cgggtgcaggg 240

accggccgaa gctgctgttc gacacgctgt gcgcgctcgc cgacctgcaa tacgtcgtgt 300

tccacggcac ggtcgacgcc gagggagcca tcaaggacaa ggaggcctac caagagtact 360

acatccggca cgtcgacggc caccgggtgc gtcctgacgc cgaacggggc cgctcgtcc 420

ggtgcct 427

3621

<210> 8327
 <211> 320
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-023-Q1-E1-F9

 <400> 8327

 tcgacccacg cgtacggcaa aggcaagcgc tctcaggcca tggagtccat cagcgccagc 60
 accacgctcg tcaagttcac ctacgacgat atcaaggctg ccaccgacgg attcgccagg 120
 aagagtatta ttggccacgg tggctttggg aatgtctaca aggggggtgct gcgcgacggt 180
 gctgaggtgg cgggtgaagcg gttcaagaac tgctccgcgg ctgggggacgc cgcctttgcc 240
 catgaggtgg aagtgggtggc cagcgtgcgc catgtcaact tggttgcgct gcgtgggtac 300
 tgcattgccca ccacacagag 320

<210> 8328
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-023-Q1-E1-G3

 <400> 8328

 gggccgaccc acgcgtcagg tccagttgaa tcaagaaaag gcgacggtgc aatgactgca 60
 tgtgaggtgc tcttattcca ccatgaagat atggggatcc catgggagat tgcgaagctc 120
 ggtgtccggc aagggatgtg gggctgcgtc aagaggatag agcctggcct tcgggcatac 180
 caggttgcca ggaccgctgg agagcctatc tcaaaacatg ccgccatggc gcatgttacc 240
 accaggttcg atgctgacga gctcgtcacg gaagacagcg tggaggccag ttcatccact 300
 gacaacaaca agaccaccga ggttgagaag ccaaagcact ggacaaacaa catacccaag 360
 gttctcatga tcggtggcgc cgtcgccctg gcttgcacct ttgacggtgg attgctgacc 420
 aaggccgcca tattcgg 437

<210> 8329
 <211> 450
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-023-Q1-E1-G5

<400> 8329

gtaccaatct gcgaattccc gggccgaccc acgcgtcagg gggcgagcag gtgagcgtga 60

cggtcacggg ccacagcctg ggcagcgcgc tggcgatgct gtgcgccttc gacatcgagg 120

agacgcgcgc gaacgtgtcg cccggcgaca ggggtggcgcc ggtgtgcgtg ttctccttcg 180

ccggccccgc cgtcgggaac gtcgccttcc ggaggcgggt cgagcgggag ctgggcgtgc 240

gggcgctgcg cgtcgtgaac gtgcacgaca gcgtgcccaa ggtgcccggc gtgtttcttca 300

acgagtcggc gttcccggag ctcgtcctgc gggcgggcga caggctgggc ctgggcggcg 360

tgtacacgca cctgggcgtg ctgctgcagc tggaccacaa ggtgtcgccg ttcttcaagg 420

agaccctgga cctctcgtgc taccacaacc 450

<210> 8330

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-G9

<400> 8330

ccgggtcgcc ccacgcgtcc gccacgcgt ccgggtgtgca ggtgctccgc ggccggcctgc 60

cggctgagat cacctcccgg ggcgccacct ccgacgatcc actcgtcatt gtggactaga 120

tccaactgcg gggagagtag tacgtagtag actagtagtg gtgcagtgca gtctgtagag 180

gagacgagac gctcaggagc taggtagcat cgtcgttgta ttttgttgtt gccctgctc 240

tagctagctc gctggtcctc gtggatcttg tagccagttt ctttctttca gctgcagacc 300

ttctcttccc tgtggacacg gttgctccat caccaagtgg tgctgatgct accagctttc 360

tgctgtgaca gttcatagta gacgctatca 390

<210> 8331

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-H1

<400> 8331

gggccgaccc acgcgtccac ccacgcgtcc gggatcgga gccctgccaa gaacaagggtg 60

aagaaagagc acgcatcggt gccgttcgat gaccagtgtt ccattcctgga gaaggaggcc 120
 gtgaacgtgt cgctccagaa cctcaagagc tacccttcgt tcaaggaagg gctggccggc 180
 gggacgctca agctggttgg cgccactac gacttcgtca aagggcagtt cgtcacatgg 240
 gagcctcccc aggacgcat cgagcgcttg acgagcgggt tccagcagtt caaggccaat 300
 gtctatgaca agaagccgga gcttttcggg cctctcaagt ccggccaggc cccaagtac 360
 atggtgttcg cttgctccga ctcccgtgtg tgcccatcgg tgaccctggg cctgcagccc 420
 ggcgaggcct tc 432

<210> 8332

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-023-Q1-E1-H8

<400> 8332

cgggccgacc cacgcgtcag cccacgcgtc cgggtcatca tgggcacgca gtacgccggc 60
 gagatgaaga aggggctctt cggcgtcatg cactaactca tgcccaagcg cggcatcctc 120
 tcgctgcact cgggtgcaa tatgggcaag gacggcgacg tcgccctctt ctttggcctc 180
 ccaaggaacg ggaagaccaa gctgtccaac gattaaaca agcttctgat cggcgacgac 240
 gagcactgct ggagcgacaa tggcgtgtcc aacatcgagg gaggtgcta cgccaagtgc 300
 atcgacctgg cgcaggagaa agagcctgat atttggaaac ccatcaagtt tggaactgtg 360
 ctggagaacg tggctcttga tgagcatact 390

<210> 8333

<211> 478

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB189-024-Q1-E1-A4

<400> 8333

cgctgccagg tcccgttcta gaatacccg gccgaccac gcgtcagggc tcttacattg 60
 gctgttggtg atgaagatac tgacatgctt gctgatgtga aacagatggc agctgcagca 120

gctgcagcag gacaagcgag ttcattcat ttcacaccagc tccggccaat tgatagatat 180
gcaatgcgct ttatggaact ctgggatcca gtaattgaca aagctgcttt aaatcatcaa 240
gtaaatgttg aggaggaaga atgggagctt gatcgattg aaaaattcaa agaggattta 300
gaagcagaaa ttgatgagga ccaagaacca ctttcttatg aatcatggga tgttgatttt 360
gctacgacag cctatcggca acatgttgag gctttaactc anaagcagtt gttagaagaa 420
caggaaaagc aagctcagga agcatcaca gagttggagg acaagaatga taatatga 478

<210> 8334

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-B3

<400> 8334

cgggtcgagc cacgcgtccg tgttcttatg catgcagcag ccataagcat tgctactagc 60
gtctcctgca cgtgctgtgt cgtttccagg gtttcatgcg gggcgaagca gctgggtctct 120
gccgcctgaa cgccgcccga atctgcgagg cctccccgag ctgcgtgcgt cgtcggataa 180
ggcagccggc acggcaatgc cggttccgct tgctccgtac ccagctcctc cggcgccatt 240
cacgcccgcc aatggggccc agagccagct cgtctgcacc ggtgcccga acctcctcat 300
gtaccagct ggtgcgacgt cgggtctgctg cgccgtctgc agcaccgtca ccgccgtgcc 360
ggctccagga actgagatgg cgcagctagt gtgccgagga tgccaaaccc tcctcaggta 420
catacgcggc gcgacgagcg tgc 443

<210> 8335

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-B8

<400> 8335

gtcaggaagt cccgggtcga cccacaacgt ccgcggacgc gtgggctatc atgaatctgc 60
actctgacca gggaagtaac tcccttggtt gctcagactt gggttgggag aatgatacta 120
agacaccaga catcacatcc attgctccca tccccactat tgctgaaggc gatgagtctg 180

tatttgtaa ctccaattca aacagctcga tgggtgcctcc tgtccttgag aacaatgctg 240
 ttgatctcac tgatgggctg acagatttgg aatcctatat gaggtttctt atggatggcg 300
 gtgcaagtga ttcaattgat agccttctga accttgatgg atcacaggat cttggtagca 360
 atatggacct ctggaccttc gatgacatgc ccatcgctgg cgatttcctc tgaggaattt 420
 gaagcttggc cataggacta tgtacatagg gactacggaa t 461

<210> 8336
 <211> 375
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-024-Q1-E1-C1
 <400> 8336

ggtcaggaat taccgggtcg agccacgcgt cagggtttaca tgcataccaa cagggtgtctt 60
 acatgatttt ggcgatggtg tctcctgtca ctcattctgt gggcaactgt gttaaactgt 120
 ttgtgggtcat tgtaacatca gtgctgttct tcaggacacc tgtttctcct atcaactctc 180
 tcgggtactgc gattgcactt gccggagttt tctgtactc acagctcaag cgacttaagc 240
 ccaagccgaa gacggcttaa atagggattg tattttccat ctctttgtgt taatggagtt 300
 aaacacttct atgtttcagg tgactgcatt ttaaaagatt tgtgcttata acaacaaatg 360
 aaaaaccgca aacgg 375

<210> 8337
 <211> 458
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-024-Q1-E1-C6
 <400> 8337

attcccgggc cgaccacgc gtcagcccac gcgtccgcaa cgagtccgac agcgtcaccg 60
 acgacaaggc caagggctgg gccggcatcc atgcgatccc aaggaagatc tggctggacc 120
 ccaccgggaa gcagctgctg cagtggccca tccacgaggt cgagaagctc agggggaagg 180
 ccgtcagtgt ggacgccaag ctggtcaagc ccggcgacca ttttgaggtc acaggcatcg 240
 caacttatca ggtagtttt atactctagc tacgttttga attcgatgga tcataaaact 300

gtttttttttt acttagtaac tagtggcaag ctaaggccgg cggtaacatg tgtgctgctg 360
cacacagctg gtcacctgtc aagcttcgat tcgcagcttg tcggtagtat acactacact 420
agtactagca gggatatctgt ctagccagcc cagctgcc 458

<210> 8338
<211> 124
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-024-Q1-E1-C8
<400> 8338

gctccaagct ggtaaattcg atatgctgta gaaatccggc tttctattga acggggcagc 60
acatatgggc tctctcatat tttagcctac tgtaccattt cccccactat ttttcttttc 120

gacg 124

<210> 8339
<211> 403
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-024-Q1-E1-D1
<400> 8339

cggtcaggaa ttcccggggc gacccacgct tcagcttttc cccaaggcaa ccaaaccatc 60
tcgactcgtg gggaagattc gctctcgccg gcgtcgacgg cctaggggtc gaggaacgtc 120
cgtccgtccg tccggtgaag gagcggtagg gagggcgaga tgatcgaggt ggtgctcaac 180
gaccgcctgg ggaagaaggt gcgggtcaag tgcaacgagg acgacaccat cggcgacctc 240
aagaagctgg tggcggcgca gacggggacg cgccccgaga agatccgcat ccagaagtgg 300
tacaacatct acaaggacca catcacctc aaggactacg aggtccacga cggcattggc 360
ctcgagctct actacaactg agccgccgcc cctctctccc tct 403

<210> 8340
<211> 348
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-024-Q1-E1-D10

<400> 8340

gtctgaagca aaagcaatgg ccatgagagc gtttccgctg accccttcca ggagctcctc 60

gtttggagct caccaaacca ggccgagcgg cggcgggccc agatcagtga gagcttatgc 120

gaagggagac gaggagggcg acaagcagtc cctcttcgga agcatcaccg aggcgctgga 180

cttctcgcag gtccggtcgg agaaggacgc cgagctgctg tacgaggcca gggagtccac 240

cagaggtgga gggaggatga cgagggagca gtacggagca cttaggcgga agattggtgg 300

cacctaccag gatttcttca agtcatatgt tgaagtcgac gggcaata 348

<210> 8341

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-D2

<400> 8341

gggccgaccc acgcgtcagc tccgaagtca agtccacccc gttgcagccc tacagcgagg 60

tgttcggcct ccagcggttc cgcgagtgcg agctcateca cggccgctgg gccatgctcg 120

ccaccctcgg cgccctctcc gtcgagtggc tcaccggcgt cacctggcag gacgccggca 180

aggtggagct ggtggacggg tctctctacc tgggccagcc gctgccgttc tccatctcga 240

cgctcatctg gatcgagggtg ctcgtgatcg gctacatcga gttccagcgc aacgccgagc 300

tcgacccgga gaagaggctg taccgccggc gctccactt cgaccgctc ggcttggcgg 360

ccgaccctga gaagaaggag cggctgcagc cggcggagat caagcacgcg cggctcgcca 420

tggtc 425

<210> 8342

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-E1

<400> 8342

gggccgagcc acgcgtcagc ccacgcgtcc gccacgcgt ccgcgaacag tccagaaccc 60

actgctcgaa accgcagcca ctggccagtc gatgcccatg actgcggtgc ccaggaccgg 120

tcactcacct gcagagtgca ccgcaataat cagcttccgg atggtggcgt tttgtcagtt 300
 ttggatggaa atgccgaact ggcagcgtct gttttcccta tgcataatgta atttcctgcc 360
 tctttatatt cactcttggt gtcaagt 387

<210> 8345
 <211> 279
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-024-Q1-E1-E8
 <400> 8345

caggttacgg tcaggagttc ccgggccgac ccacgcgtca gagcacaaca agtagtcaaa 60
 gcatctagct cgttacaagt ggctcttgtc gctacaatt ttgccttctt ccaagtcttg 120
 tttgaagttg ctctctgcga agagccggta gagaagttaa taccgtctag caatggaccg 180
 ggtgacgaca ctggcttctc agcgcgcggt ggtcatcttc agcacgagct cctgctgtat 240
 ctgccacacc gtgacgcgcc tgttccgcga gtcggggt 279

<210> 8346
 <211> 291
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-024-Q1-E1-F1
 <400> 8346

agcccacgcg tccgccacg cgtccggaag gagaacata tggggagttg aacgagtgct 60
 gcaacttcac aaccagttac ctagccagca ttcttttgct tttcccctgt atattttcca 120
 ttcagtgtca ttcgatgggt ggtgttgggt ctctttagac aaactgggga ctgttgctta 180
 tcctaaaaat tcgattgtat tgtgtggcat gaaatgatcg atgtcaaaga atattttgaa 240
 catgctgccca cctaattata cttttcatat gaacatcata aagaaagact g 291

<210> 8347
 <211> 172
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-024-Q1-E1-F10

<400> 8347

aattcccggg tgcacccacg cgatccggag ttaatgagaa tactgatgga tgttaagga 60
ttaagctgga gtgaggcatt gagtattaca gaaagaaccg tggcatacac taaccataca 120
gtgcttcctg aagctccaaa gaaatggggc ttgggcaaaa tgcaaaaact tt 172

<210> 8348

<211> 301

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-F11

<400> 8348

cgcgagacgc gcggctggcc gcgtgggagg accggttcgc cgccgccgac gtggccaagg 60
gcgtcgtgcc cgacgacctc cacaagatgc gcgcgttcct gcagacctg cgcgctatga 120
actacgcaa gtgagagtgt ttcgtcgcat gaacgtgtgc cgtgccgtgc acgacctatg 180
atcagttcat gtcgatacgt ctatcactca gttttgcttc ttccgtcaat aatcggtgtg 240
ctgaatacat gtacaccagc tgcctataat tttgcttctt tttccaata cctccgtttt 300
t 301

<210> 8349

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-F6

<400> 8349

aggtaacggt caggaattcc cgggccgacc cacgcgtcag cgacaaagat ggcattccatc 60
aggaagtctt ccttcattgt cccatctgct gacacctatg ctgctgctgc cgttcgtcac 120
attggatacg agcctaggtg cacaccatac tggccacact ctgctgctgtg gttcttgatc 180
tccattcttc ccgagtcctt tatcgacagc gtgcgccttg gcatgtgcat taagatccgc 240
aagaaggggc tggccaagga cgccaagaag aaggcgtgt gattgatgtt tcagaatgca 300
tgttcagatt cgcacatttc ctcatcacct gtagtagaca cgtgccttgc tgtagtcact 360
ttattagcta ccattgcctc ctgagctctg taagaatcga gaatgtcatt gtttcattccg 420

cggttatgat gatgaaaaat acgattc

447

<210> 8350

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-G2

<400> 8350

gggtcgagcc acgcgtccgc ccaagcgtcc ggcagaggtc ccgcggcttc ggcttcgtca 60

ccttctccac ggaggaggcg atgcggaacg ccatcgaggg catgaacggc aaggagctgg 120

acggccgcaa catcacggtc aacgaggccc agtcccgcgg cggccgtgga ggccggcgcg 180

gtgggtacgg tgggtggcgt ggaggcgggc gctacggcgg tggcgggcgc cgtgatggcg 240

gcggcggtta cggcggtggc ggcggtacg gtggcgggcg cggctacggt ggtgggtggcg 300

gcggctacgg cgggtggcaac gtggcgggg ctacggcaac tccgacggga actggaggaa 360

ctgagcgggt gggcccgccg gggcaagtta tctgttcgc tgccgtgatg tttaccctag 420

tccagagggt ttatcttcgt tcgtctcgtg tttg 454

<210> 8351

<211> 468

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB189-024-Q1-E1-G4

<400> 8351

ggtcaggaat taccgggtcg agccacgct caggggagcc aatggagtcg gtgggtcgga 60

gtccgagcgg aagccgctgt cagaggtggt cggcgactgc gtccagcgt ggttccagga 120

cgcgtacaag gaggcgcgca aaggagacat cgccaaccag gtgctttag cgcagatgtt 180

cttctcgggt tatgggaccc ccaagaacga gtacaaggga aaacaatgga tggatagagc 240

atcaagggtc aggtcttcg ctttgaagg tggcatgaaa cgtccaggat acaatgcaag 300

tgactcagac tctgatgacg atgcanatga tgacgccaac caataacact caattacaaa 360

ttgagttatt agttaggaga ttcacaggga attttccttg gtgctgggac ttcagggtcg 420

aattacttgg tggtttatgc atttattaac actgtgtttg aattgtga 468

CGGTATGAT GATGAAAAAT ACGATTCTTCTCCAC GGAGGAGGCG ATGCGGAACG C

<210> 8352
 <211> 365
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB189-024-Q1-E1-G8

 <400> 8352

aaaaaaatatc acaccgttca tcagcatact tttaagatca cacatcagta caacacattc 60
 acatgaagct atatatatgt aacaggcatg cttaatacta actaactagt actgtatgag 120
 acaacgatgt atacacgcat gttgatcact acggggacag tagagagaca gtgtcaggtc 180
 gtcggtttctc tgcagttcag gattccacgt agcaggatct taacttgatt aactggcact 240
 tggcagttag cttaatccgt tgcacgtcgc tacgtgtcca cgttaggcaa ttgcgccatc 300
 tcatcccaat tgcacctgag ccttgccctg nagaggcgct tccactcgac gagccgcagc 360
 aagaa 365

<210> 8353
 <211> 332
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB189-024-Q1-E1-H11

 <400> 8353

ggctcaaacc ttttcctaaa tgattttggt ggttgaaatg cccaacacan ataattggac 60
 taactagttt gccctagatt atatgtccta cagggtgcaa aggttcattt tgtcggcggt 120
 tcgacccccg gggtccttgg accgacgagt aaattgtcgc tgcgtgtccc agcccagatg 180
 ggtcngcgcg agacggaaca caacggggga aaacagtaag gggaaaccgc ggtgagcccc 240
 gtgtcgaccg ggagtacgac atgggtcatcg tcccgccga cggcggtggg tgcctctccg 300
 gctctgactc ggacgactcc gactgggtcca tc 332

<210> 8354
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-H12

<400> 8354

aattccccgc tcgacccacg agtcagccca cgcgtccgcc cacgcgtccg gtctcacttt 60
aaaagctcta aaaggaaact tggcatctgg aggagagtca aatgagcagg ctgggatcaa 120
cgtggagaac tttagatctt ctgtatttcc ttcccggcag ttgtctggtg aggtaaaacc 180
attttatcca aatcctggaa tgcacagtga gaatgtttgg attcaaaca ctcagacaaa 240
cgagacaatg aagctgggca acgcaactta ctacagacag cttccaggac atagcactga 300
gtcaataaac caaagaagta caggaagttt ccagagtctg gtgagacgtc aatctttccc 360
accttcgagt tacaagaaat gagattcata ccagtagccg tcctgatgta taaaggaaag 420
gaagaaa 427

<210> 8355

<211> 469

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-H2

<400> 8355

cggtcaggaa ttaccggggtc gagccacgcg tccgcggaac gggacgaata ttatctcaaa 60
aaaaagtctt gagtcccccc tctccttccc cttcccaacg ctctcgctgc agaggaaagg 120
cgaagatggc gatgaccgtc gaagtgcttg ctgcactcgc gttcatgttt tccacgagta 180
ttctactgca gatactggca tgcgctttgt acaacaactg gtggcccatg ttagcagctc 240
tcatgtacgt ccttgtacca atgccatgcc tgtttttttg tggtgatcc acacacttct 300
tgaccagcag agaaggtgga ggggtggatta atgctgcaaa attcttgact ggtgcgtcgg 360
ccatgggaaa ccttgctatt ccagcaattc tgaggcacgc tggcttaatc gagaccgggg 420
ccatgttcat cgagttcacg tccttcttca tccttgatg cacagtgc 469

<210> 8356

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-024-Q1-E1-H7

<400> 8356

aggtactggt atagaattcc cgggccgacc cacgcgtcag cccacgcgtc cgcaagaagc 60

gcagcgccca tggccatggc cacgcaagcc tccgccgcca cgcgccacct gctggccgcc 120

gcctggggcgc cggcgggcgaa gccgcggcag ctgagctcgc agctcgcgct gccgtcgtcg 180

tcctcccgcg ggccggcccc gctccgcgcg tccaccgagg aggcggtgga ggcgccccaaag 240

gggttcgtgg ccccgagct ggaccccagc atgccgtccc cgatcttcgc gcggcagcac 300

gggcgggctg ctccgcaagg cgcacgtgga ggagttctac gtcacacgt tgacgtcgcc 360

caaggagcag gtgttcgaga tgcccaccgg cggcgccgcc a 401

<210> 8357

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-A12

<400> 8357

cacgcgtcag ctcatcccc gttgaatttc aatttctggc caactttgaa ggggtggtcca 60

atgggcaact tgttcggcaa ctctggcaaa gtccggtaat ggaaaggaac aaacctgaac 120

ttgaaaggaa accgggttac aagcccgggt ttgggccccca agttcaacaa cccaaaaagg 180

ctcctcccc taaaaacaac attccctccg gtcccccctc aagccggcaa aggcgggaaac 240

gttaacaaag gtaatggcat cgtgaacaac aactggccct ggcggcggac gtggggctga 300

cggcgagac caagttcacg gacctcggcg ccgactcgct ggacacggtg gagatcgta 360

tgac 364

<210> 8358

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-A3

<400> 8358

cgatccagaa gaccaagctc atgaccgcc tcacgtacac gctggacgag atcgagggcc 60

cgctcgaggt cggctccgac ggcacgtca agttcgagga gaaggacggc atcgactacg 120

ccgccgtcac cgtgcagctc cccggggggcg agcgcgtgcc gtctctcttc accgtcaagc 180
agctcgtcgc caccggcaag cccgagagct tcggcggggc cttctctgtg cccagctacc 240
gtggctcctc cttctctgac cccaagggcc gcggcggctc caccggctac gacaacgccg 300
tcgcgctccc cgccgggggc agaggtgacg aggaggag 338

<210> 8359
<211> 380
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-025-Q1-E1-A5
<400> 8359

ccggctcgac ccaagcgtca gcaagaaaac aacgcagagc tcaccaggga ggctgttgat 60
gttttcattt ggtgcttaac tcaaaatgca gagtcttaca agcagtggga aagaatttat 120
cttgaaaata ttgaagccag tggtgctgtc ctgagcaaag ttgtgattga ttggagggat 180
gtgtctccta agctcagttc tgaagctctc aaggcaacag tgaagaactt taaggctaag 240
aatgaggctg cgctggagtc cacaacagat gctggaaagc aggcatttat caaagaagca 300
gacaagcact gcaaggcgat ctttggaag ctgaccctgt gcgccacctg cctgaagagc 360
agcctggtgg tcatcgcgct 380

<210> 8360
<211> 350
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB189-025-Q1-E1-A6
<400> 8360

ggtacaggtt aggaattccc ggctcgaccc acgcgtacgg gagggactta tgtcaccaca 60
aacagaaaact aaagcaagtg ttggatttaa agctggtgtt aaggattata aattgactta 120
ctacaccccg gagtacgaaa ccaaggatac tgatatcttg gcagcattcc gagtaactcc 180
tcagctcggg gttccgcctg aagaagcagg agctgcagta gctgcggaat cttctactgg 240
tacatggaca actgttttga ctgatggact taccagtctt gatcggtaca aaggacgatg 300

ctatcacatc gagcccggtc ctgnggaccc agatcaatat atctgttatg

350

<210> 8361

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-A7

<400> 8361

aattcccggc tcgaccacaca cgtacgcttg aaaggcaacc aagtgatgat gaaccatttt 60

ctgggttagc tttcaagatc atgactgacg cgttcgtggg gtcactaaca tttgttcgca 120

tatactccgg gaagctgata gctggttcat atgttctcaa tgcaaataaa gacaagaaaag 180

agagaatcgg aaggcttctt gagatgcacg caaacagtaa ggaagatata ccagttgctg 240

tgacaggtga catagtagcg cttgctgggc tgaaagacac aattactggt gaaacactct 300

gtgacccaaa caagcctgta gtgcttg 327

<210> 8362

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-B5

<400> 8362

aggtataggt taggaattcc cggctcgacc cagcgtacg accaagggat actactgtcc 60

tgccatgtag gcatatgtgc atgtgcagtg agtgcgcaa ggtcctgagg taccaaacca 120

ctcggtgccc catctgcagg cagcctgtgg agcgtctctt ggagatcaaa gtgaacaaca 180

aatctgaaga tcagcagcag acgcccgaat cgccaccgag cccagacctg gctccgcagc 240

aggaaggggt gtagccgtga tcaaagtcag ttctgaagta tttggcttga atttgcggac 300

cttcctgaag gtttgttctc tcatttgggc aacggggaat gcaactggta cttttacctt 360

tagcatatgt aagcttctgg catcgcatgg ctttg 395

<210> 8363

<211> 371

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-025-Q1-E1-B7

<400> 8363

ttccccggtc gacccaaacg tccgcccacg cgtccggaag atgggacagt gattgaaagt 60
gaaactgcga aagatgatgc cagaacatat ggagttaatt tgtcagaatc agatgctgca 120
gttcgtattc agtctgccta cagagggtat gatgttcgaa aatggcaacc tttggataaa 180
ctctggaaga tcaagcatgt gcatgaacag atgcaagttg tgaggaagca ttcaatgcct 240
tttagattct tgcagtaagc caacacaaaa agagcaagtg gccataggtg aaactattat 300
gaatttactc ctgaagcttg acgcaatcca gggcttgcac ccaagtgtaa gggaagctan 360
gaagtctgtt g 371

<210> 8364

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-B8

<400> 8364

aattccccgg tgcacccaca cgtccgcca cgcgtccgct cgctcgcta cgtacgtctc 60
tctctctccg ccgcgacccc ccacaagcgg cgcggcgcc ggcgctgcag ctaaaccaaa 120
ccctaagcca cgggcaccgc cctacgccgc gggctctccg cgatgcgccg gtgcgcggag 180
gcgatcgca gggccgtggt cgagttctc gaagccgtca tcttggcctg tctccgctcg 240
tgcttcggcg cgcgcccccg ccgcggctcc ggccgccgag atgcgctcgt gcgcggggat 300
cgggccgcgg aggtcatctg ggatgaggaa agcttggtta ggga 344

<210> 8365

<211> 113

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-C2

<400> 8365

aggtaatcta tgatggcaat gtttgcctgg tcatgaagta ttattacttt cgttgaaacc 60
gtgatgctat taagacttaa ttttttttat ggaacatcga atgtaaggca aaa 113

<210> 8366
 <211> 365
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-C6

<400> 8366

cccgggtcga cccacagcgt acgcggacgc gtgggcggac gcgtggggcc gcgggttaac 60
 cttcccttct cgctgccgtg ctctgctcg tgcgcgcgtt cgcaatcgta gcgctgggggt 120
 tgagccgcga gtggataaac cctagccggt ggtgtagctg ggttggtggc tttgatgccg 180
 gcgacggccc gcttgtcccc ggaatggagt gagtgacga aggctgccat gggctctaac 240
 tatgccacga ttggattata ggatagtagc tggcagctac cagtttccta gaaccaattt 300
 gtggatagcg agaggagtga ctgttggtca gtactttcac ctcgatcatg ggtggtgtct 360
 gctca 365

<210> 8367
 <211> 380
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-C7

<400> 8367

gaattcccgg ctcgacccaa gcgtacgcc acgcgtccgc ccacgcgtcc gacaacagca 60
 aggaaggtt aggtttcttc ggcaccatgg tgcattctc acttgctggg gagaacgttc 120
 atgagattta gaggcattgt ctacaaatgc agttctggac ataataactg aatttgagca 180
 tcgcattctt gtgctgctga atcttatctt gattatggct tcggcaacat cctggaagag 240
 gaatttatgg tcaactgaga tcatctccaa gaccgagagg gctaacagaa aacatcagat 300
 ttcagcatcc aattactctt gactaacgtt ccactctttg caaaaccatt gtgccggcaa 360
 ggagggctac tatttttaggt 380

<210> 8368
 <211> 357
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-C8

<400> 8368

cccgggtcga cccacacgtc acgcggacgc gtgggcgccg atcacacatt ggacttgcac 60
tggtgcttgc tcataattac tagttcatca gcaaacaaca aacaatggca ccgaggctag 120
cgtgcctcct agctctggcc atggcagcca tcgtcgtggc gccgtgcacg gcccagaact 180
cgccgcagga ctacgtggac cgcacaacg cggcgcgcgc cgacgtgggc gtcgggccgg 240
tgtcctggga cgacaccgtc gccgcgtacg cgagagcta cgcggcgcag cgccagggcg 300
actgccagct gattcactcc ggcgggccct acggcgagaa cctcttctgg ggctccg 357

<210> 8369

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-C9

<400> 8369

cgacccacgc gtaagcggac gcgtgggaaa aaaaaatgag caaaaagaat aagtctagga 60
gattgacgat caatgggaat gatggttcat tccacatgaa tgtaaagggc agatgccctc 120
taggctgtgg gctaatttca cttgactggc cggctggatc ccttccgtga cttagaaatc 180
tgcgaagtgg gggctcttgt tctacgtgct acagattggc atatcactag ctggcctctg 240
tcttaactgg ttggcacgaa ttacccttct caacagtggc gctaaccoga atgtggaatg 300
ggacgttcca tctaccagtt cattgatctc cctg 334

<210> 8370

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-D11

<400> 8370

agcactagta aatttgggga aactaaggtt caacaatggc aaaccgggat caaaccaatg 60
gtagccggac cgccatggat ggcaattcgg taaccaacgg tcaagaacct aaacctcccg 120
gaattgtaca aaacatccat aattacaatg gtagaaacca acttgaggga aacctataa 180

aaacttcccc gtaaattggaa aaccaatcgg ttaatgaaaa aaaaaataaa

230

<210> 8371

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-D3

<400> 8371

tcccggtctg acccagcgt aagcggacgc gtgggcgtgc ggcagttgct cacggatctg 60

gaggaggctg aggaggtcaa caagcagctc gatcagatgg gttacaacat tggaacacga 120

ttggttgatg agttcttagc aaagtcaa atgtcaaggt gtgttgactt caaggagact 180

gccgatgtta ttgcgaagct tggcttcaaa atgttcttgg gctgactgc aaccgtgacc 240

aattgggatg ctgagggtac aagttgcagc cttgtcctgg aagacaaccc tcttgttgat 300

ttcgttgagc tccctgacac ttgccaaggc cttcagtatt gcaatttgtt aagtggagtt 360

attaaggggg ca 372

<210> 8372

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-D4

<400> 8372

ccggctcgac ccacgcgtaa gctcagtata gtgttcgtca caatactgtg cacaccacaa 60

ctaacagtta tcagggtggtc tccgaaccca ccggtgtcag ccgacgtctt gcatcagtgg 120

aaaggattct gtgctcta atcggaacgct tactatgtca aaggaatggc atggttgcca 180

gtgaaaacct tgcagctgga acagatggct gtcacaggaa gttcagagaa accatcagta 240

gttgctagcc gcatgcagtt agttttcagc acattagagg tagtcagccc acagtggcca 300

agagtgtgat tagatgaaag caataccatc aaacaaaggt ctgcagtttt attctgacca 360

aaagatatgc atgtccaagt tagcaagttc aaac 394

<210> 8373

<211> 449

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-025-Q1-E1-D5
 <400> 8373
 aattcccggc tgcacccacg cgtacgcca cgcgtccgcc cacgcgtccg gaaaacccag 60
 ctcttcaacc ctataggctc caacaagcaa tgcagcaag caacatacct ttatcacct 120
 tgtttcaaca atcgccagcc ctatctttgg tgcagtcatt ggtacaaacc atcagggcac 180
 agcagctgca gcaactcgtg ctacctgtga tcaaccaagt agctctggca aacctttctc 240
 cctactctca gcaacaacaa tttcttccat tcaaccaact gtctacattg aaccgtgctg 300
 cttatttgca gcaacaacta ttaccattca gccagctagc tactgcctac tctcagcaac 360
 aacaacttct tccatttaac caattggccg cactgaaacc cggctgccta atttgcacca 420
 ccaattacta ctaccaattt agccagcta 449

<210> 8374
 <211> 417
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB189-025-Q1-E1-D6
 <400> 8374
 ggtacaggctc aggaattccc ggctcgaccc acgcgtacgt gaagctgtaa aattaacagg 60
 ggacaacctc atgccagctg gtcaggttgt tttccgtgca aaagttggtg aacactatcg 120
 gctccctcat aagggaatta tccctagaga acttggagtg attgctaggt acaaggggca 180
 aaggaaaatt gcagatcctg gtttccaaaa ccctcaatgg gttgacgggg agcttttgat 240
 actagatgga aagttcatca gagatggtcc tgtgatagct ttcttttact ggacatctaa 300
 tgttcatctt ttcgaattct ttagacagtt gaagcttctt gactagttcc cttctaaaag 360
 tagttaaagg ccattataat ttcagcatag ctgcgtttgg aaccaanccg aatttcc 417

<210> 8375
 <211> 382
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-D7

<400> 8375

gaattccccg ctcgaccac gcgtacggga gcagatcagg atccattaac acccctacgt 60
acgcctttcc tctggaaacc cttctctcgc ctgcctctcc cccgccgcgc cgccacttcc 120
cctctccccgt caactccggc ttccgcgcga ggctcgagcta gcgtttggag ttctcgagac 180
ctgctgtgat ggcgacagag caagcggcgg agaactacac ggtggaggac ctctgtggccc 240
tgaaacccta caaccccgac atcctcaacg acctcgagaa gttcgtcaat gagcaggtct 300
catctcagac atataacttg gatgcaaata tcagccttct tcgcttgtag cagtttgagc 360
cagaaaggat gagcatacag at 382

<210> 8376

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-D8

<400> 8376

gaattccccg ctcgaccac gcgtacggtc ttcagacacc atcgacaacg tcaaggccaa 60
gatccaggac aaggagggca ttccccaga ccagcagcgg ctcatctttg ctgggaagca 120
gcttgaggac gggcgacgc ttgccgacta caacatccag aaggagagca ccctccactt 180
ggtgctgcgc ctccagggag gcatgcagat cttcgtgaag accctgaccg gcaagactat 240
cacccttgag gtggagtctt cagacacat cgacaacgct aaggccaaga tccaggacaa 300
ggagggcatc ccaccggacc agcagcgttt gatcttcgct ggcaagcagc tggaggatgg 360
ccgcaccctt gcggattaca ac 382

<210> 8377

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-E1

<400> 8377

aagcaaagga ggatttgagt ttgcacaag tgatgaggat gaaccagaga atctgtttcg 60

taatgttttt cgagaccagc acacatatta ttgggtctttt tcatctgata attttcagag 120
gaactccaaa cgtgctcgct cacaaaaatc cagaaactgg agttttgaaa cagacgagga 180
ggatgaagta tcagctccat cagaggtatc tttggcacga caagctcttg ggttgagcac 240
ttctgggtccg cttaaacttg aagatgttaa aagcgcatac cgagcatgtg cacttagatg 300
gcatccagat cgccacaatg gatcatctaa gtctacagcg gaggagaaat tcaagcattg 360
caatgcaaca tacaagacct taaggtgaaa tttgggccgc tgcatagata attttgaatg 420
aagatgg 427

<210> 8378
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-E5

<400> 8378

gaattcccg ctcgaccac gcgtacgaaa tctctaatac tagatgggtg ccggcgctgg 60
cgctgctcct gggacgacga gaacacgacg atcagccgcg cgctctata tactgcagta 120
caagaacacg acggaggcg cggtggacgc ggcgcgcac atcctccggc agtgcgcgct 180
gtccggcacg gtgaagcgcg tcatccacac ggcctcggtc acggccggt cgccgctcaa 240
ggaggacggc agcgggtaca aggacttcgc cgacgagtc aattggacgc cgctcaacct 300
ctcctacgaa ttcaccaacg cttacctgga cgtacgtaat acagtgcctat ataggactaa 360
tctatatatt gactactcat gtgcatgc 388

<210> 8379
<211> 468
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-E6

<400> 8379

ggtaaagggt aggaattccc ggctcgaccc acgcgtacgg gcggcgacga gaagtggcga 60
gccccgagag cgggttttagt tagaggctac gggcggtcgg gcgcggcggc ggccggcgcc 120
atgagcagcg ggagcgagag cactaccgcc agcaggtggc ccgagctggc cagcgtgcgc 180

gcgctggcgc gcgacgccgc ggagcagctt eggctgccgc gggccggcac gtcggcgctcg 240
 gcgtcgctgc cgtggcgcg ggcgcaggac cacctccacg gcctcggcaa gacggccaag 300
 gtgatgcacc tgctgctctg gggacccaag tgaagcggcg agaggccacc gtaccgccgg 360
 gctctcccgc tggcgttgct cgttttgctc tgcttgaat ccgcccga cgggacggta 420
 cggtacctat atattcacct acatactacg acgtgcacct gtactacg 468

<210> 8380
 <211> 382
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-025-Q1-E1-E7
 <400> 8380

gaattcccgg ctcgacccaa acgtacgcc acgcgtccgc ccgaagcact ggtcattgga 60
 gtagtcgcct tgttggtatt cggccccaa ggtctagcag aggtagccag gaatttgggg 120
 aagactttgc gtgctttcca accaaccatt agagagctac aggatgtatc aaggagttc 180
 aggagcactc ttgaacgaga aatcggaatt gatgaggttt cccaatcaac gaactatagg 240
 cccacaacca tgaataacaa ccaacaacct gctgccgacc caaatgtcaa gcctgaacca 300
 gcaccttata ctagecgagga actaatgaaa gtaactgaag aacaaattgc tgcacagct 360
 gctgctgctt ggaatccaca ac 382

<210> 8381
 <211> 441
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-025-Q1-E1-E8
 <400> 8381

gaattcccgg ctcgacccac gcgtacgatg tacgcctagc tagctcggag cttgtccaag 60
 cagagctctg cacgtactga acctgaacac acagtagagt agcgcaacgg atctcgaaat 120
 ggctgcgagg cttgcgctcc tcaccttgc cagcacctc ctcctctcgg ccgcccgga 180
 cgggggcagc accaactgcc cgtcgccgcc aatgaccccg acccgcagc cgcacagcc 240
 tcctccgtcc gacggggggc ggggcggggg tggtaacggc tccgccggca gctgcccgat 300

cgacgcgctg aagctcgagg tgtgcgcgaa cgtgctgaac ctgctgaggc tgaacatcgg 360
 cgtgccagac gacgagcagt gctgccgttt ccggaggggt tccccaactt cgacgcgcgc 420
 gtctgcctct gcctcgccat c 441

<210> 8382
 <211> 400
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-025-Q1-E1-F10
 <400> 8382

gtcaggaatt accggctcga gccacgcgtc agcccaagcg tccgccacg cgtccggtat 60
 cctctcagtt gctgccattg ataagggcac tggaaagaaa caggacatca ccatcactgg 120
 tgctagtacg ctacctaaagg atgagggttga gagaatggta gaagaagccg ataagtttgc 180
 caaggaggac aaagagaaga gagatgcaat cgacaccaaa aaccaggcgg actcagtggg 240
 ctaccagact gagaagcaac tgaaggagct tggcgacaaa gtccccgctc ctgtgaaaga 300
 gaaggtggat gtgaagctcc aggagctcaa agacgccatt tctggtggat caacacagag 360
 tatgaaagat gccatggctg ctctgaacca ggaggtgatg 400

<210> 8383
 <211> 438
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-025-Q1-E1-F4
 <400> 8383

cccggctcga cccacgcgta cgggaatata atcaagatgc ttctggtttt cctcggccaa 60
 cggaggatga aaatgccgcg tctgctacag gagataattc tggcttccaa gaaaacaaca 120
 cgggtttctca tatggatctg gatatgatga atgactatga agtgaaggaa tgcaacgatt 180
 ttgggagtgc gattcatggc gttgatacag attttctgaa ctatggtgac gacgacaacg 240
 acgacgactt cgacgacgac ttcgagccaa atcccagcga gttccagtct ctcgacaaca 300
 gcggttggtc ttctcgcacc aggggtgtcg cgagatatct caagactctg ttcgacgagg 360
 actccggtct ggggaagaag aacgtcccca accaacaacc ggggtgcccg gaagacgcgg 420

aaggaagcgt cgaggatg

438

<210> 8384

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-F5

<400> 8384

aattccccgc tcgaccacg cgtacgcca cgcgtccgcg gacgcgtggg ggcgcgccgc 60

tggccgccac cgcggcctcc gtcgcgtcgc cgctcccgcg caagccggcc acctccacca 120

cctcgctcga ggtcgtcgcg gcggggaaga agggctacaa gatgaagacg cacaaggcgt 180

cggcgaagcg gttccgggtg acggggaggg gcaagatcgt gcggcggtgc gccgggaagc 240

agcacttgct cgccaagaag aacaccaagc gcaagaagag gctctcgaag atggtgcaag 300

tcaacaagag tgactacgac aatgttacgg gtgcactgcc ctacctcaaa gtgaatagga 360

aagcaaaactg agagctacgt ggtcttc 387

<210> 8385

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-F6

<400> 8385

ggtatagggt aggaattccc ggctcgacct acacgtacgt aatttctcat gcttcaaadc 60

tctatttttc ttgatataatt tggactcaca tttttttgtg aataatttta taatgctatt 120

ttgtcattac tgtctaaatt ctaaaatgtt cttgtgagac ttcattgggt gtgcacctga 180

ttacacttta tctggcttct tttgtcatgc atagttaaat ttcaaactgt attgtattag 240

tttgtatttc atataccgta cacatgaagt ttgagtatga actggcattt ccatcagcat 300

tacagttgct tactttgtgct atctgtttgc tgggtgcagga agctgaaact gctataactg 360

aaatgactgg aaaatggctt ggaagcagac aaat 394

<210> 8386

<211> 271

<212> DNA

<213> Zea mays
 <223> Clone ID: LIB189-025-Q1-E1-F7
 <400> 8386

ggtataggtc aggaagtccc gggctgaccc aagcgtacgc ccatgcgtcc gcccacgcgt 60
 ccgccccatgc gtcagcggac gcgtgggaaa aaatatttgt gaaaaaatta aaaaatgtaa 120
 ttttgtcatt aaaagtataa attataaaaa gtgaaatgat gaaaattcaa tggaatgtga 180
 aaatgaaaaa aaaataaaaa ggcatcattt ggggggggat atttaaattg ttcaatgcta 240
 atgtagtagt ttgtaaaaca taaaacgttt t 271

<210> 8387
 <211> 382
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-025-Q1-E1-F8
 <400> 8387

gtaaggtcag gaattcccgg ctgacccac gcgtacgcga tcgtattcgt atccgcggaa 60
 caagcagcga aggatcggag cctatccaat ggccgagggc aagagcagct ccggcggcga 120
 cctgttctcc agcggcaagc tgggtggcggg ggccgccgtg tcggtgttcc agcagaagag 180
 cgtggagaac gtcgacaagc aggaggtcgc cggcgcggcg gccgagctcc tgcacgcggc 240
 gtccgcgtac ggtaagctcg acgacaagcc ggccgggcag tacgtcgaga aggccgaggg 300
 gtacctgaag gagttcagcg cgggacacgc caccgagcag gagcagcctg cggcggcagc 360
 aggcgacgac gcggcgccca ag 382

<210> 8388
 <211> 406
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-025-Q1-E1-F9
 <400> 8388

agttttatatt tttttttttt tttttttttt ttcttttttt tttcatccac tgatgacgat 60
 acatgcgtct gtgcttagtt tacatcgacc gcttaaagca agcagccatt gacattgatt 120

gatgagcaca cacatcgatc atgagcatac cccggctggt gcaactacta aacgcctacg 180
 atttgaacaa gtagagtaca gggaagacca aactgttcac tccacggacg gacggacgga 240
 cggaccaatg gatgggtctg aaggtagtagt acatgtacgg cgttgctcag tcagttaatt 300
 gccggggaac aagttcgtgg cgtatgccca ggcgttggtg gcgacggggg cggcgacgtg 360
 gtcgaagagg ttctccatgg ggcccttgcc ggtgacgatg gcctgc 406

<210> 8389
 <211> 364
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-025-Q1-E1-G5
 <400> 8389

attccccgggt cgacccacgc gtacggtaag ttcattgaccg aaccgggttag gatccttgtg 60
 aagcgtgatg agctgaccct ggagggcatc aaacaattct ttgttgctgt tgagaaagag 120
 gagtggaaagt ttgatacact ttgtgatctt tatgatacac tcaccatcac ccaagctgtt 180
 attttctgca atactaagag aaaggtggat tggctcactg aaaaaatgcg taaaaataac 240
 ttcaccgtat cagctatgca cggtgacatg cccaacaag aaagggatgc cattatgggt 300
 gagttcaggt ctggcgcaac tcgtgtgcta ataactacag atgtttgggc tccaagactg 360
 gacg 364

<210> 8390
 <211> 380
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-025-Q1-E1-G6
 <400> 8390

tccccggctcg acccacgcgt acgcatcgtc ccacgggctg gcctccacgc ctggcgccaa 60
 tctccacgac gacttgccgg cgggccgtct tggcgactgc cgcgcccat aagaggagcc 120
 tgctgctggc gacggcctcc gagacgaggg gagtcgcgcc ggtgaggtcc agcgggatcg 180
 agaccagcac ggtgggtctg ggatgtgagg ccgtcaccgg gcaggtcacg gaggtcaaca 240
 ttgacacttt ctggcccatc gtctaggccg cggcgacaa ggtcgtcgtc ctcgacatgt 300

acatcgaatg ctgcgggcct tgctatgtga tggctccgaa attccaggag atgtctgata 360
agaatctgga tgttgtgttc 380

<210> 8391
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-G8

<400> 8391

aattccccgc tcgacccaag cgtacgggag gcgggctcat gaagacgctg tggctcggct 60
cgctcttcgg cctctggtag ctgttcaaca tctacttcaa catctataac aagcaggtag 120
tcaaggtttt cccataccct ataaacatca cagaagtcca atttgctgtc ggaactgtag 180

cagctctggt catgtggatc actggtatta ttaagaggcc aaagatttct ggagcacaac 240
ttgtagccat cctacctctg gctattgttc atactatggg caatctcttc accaacaatga 300
gccttgggaa agttgcagtg tcatttacgc acaccatcaa ggctatggag cctttctttt 360
ccgttactct ttctgcaaat ttccctgtgc aactacctaa caatttgggt agtaccttcc 420
cttcttcca 429

<210> 8392
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-H2

<400> 8392

ccggctcgac ccacgcgtac gagatcgtac tggaccaatc tgccaccaca ctttgatcac 60
acacaggaag ttgagatcag aaaaatgcag gctgccgcta ctgccgccg gttctcggcc 120
gtgctgcccg ccaagggcag gccggcggcg aggagcaggg tggaggcccg tgtccccgcc 180
acaaggagga gcgtccgtgt agctgccgtc gtcgcgaccg aggccgcgca gatcgactac 240
agctcaagcg tctcgggtgt cccgatggag gcctgcgacc tgcttgggtg cgacgcgtgc 300
aacgggcccc tggtccccga ggccaagccc gcctcggcgg cggcggcgg 349

<210> 8393

<211> 62
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-025-Q1-E1-H5

<400> 8393

agccccacgcg tccgccccacg cgtccgcccc cgcgtccgcn cacgcgtccg cggacgcgtg 60
gg 62

<210> 8394
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-H7

<400> 8394

aattccccggg tcgacccacg cgtacgaaca acttttaagt ttacctttca tcagggccaa 60
ctgttcatga ttcattatatt tgtttaatct ttacctcctt cctataagat ccacatcact 120
aacatccata attctgagaa tggaactatc gctatcgtga tctgtaagt acatgggaag 180
tagcatccaa gagtctaagt aaattctgaa tttttatcac ctgagctagc agcactgtga 240
tctgtcagaa acattagggg taatacccag caatgggtgac cgagttatga attttacggg 300
tctgagttag cagatgctgt aatctgatct agcaacatca ttgcacgcca aaaaagtgtt 360
tgtcgcatca aaaaaatttc tttgcacatc gtttaagggt gccaaaggacc cacctggcaa 420
ggatatca 428

<210> 8395
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-025-Q1-E1-H9

<400> 8395

acgcgtcagg caaccaggcg cgcaaccatg ggtcaacaac aacaaaggcc ggcggccaag 60
ccgatgggca cgctcgcttc ccaactgggc catccctccg tctctcaacc tcaaattggaa 120
gatgttcccc tcttgagggg attcaattgc ccgtcaaaaag gttcggggcc aagcttcaaa 180

gtccccgattt tgggtgcagc aggtgggatt gggcagccac ttgcgctatt gatgaagatg 240
aaccctcttg tttcggtgct ccattctatac gatgtcgta acgcacctgg tgtcacagcc 300
gacatcagcc acatgaacac tgggtgctgtg gtacgtggct tcttgggcca gccacagttg 360
gaaaatgccc tggctggaat ggatcttgta ataattcctg ctgggtgtccc tcggaa 416

<210> 8396
<211> 331
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-026-Q1-E1-A2
<400> 8396

cgggccgacc cacgcttcga cggacccttg gccggttcaa aatggcggct tcggatgttg 60
attaccgctg cttcttcggc ggcctccctt gggcaacgga cgaccactcc ctcaacaacg 120
ccttcagcac ctacggcgag gtcctcgagt caaagatcat cctcgatcgg gagaacgcaga 180
ggccccgccc cttcggcttc gtcaccttct ccacggagga ggcgatgcgg aacgccatcg 240
agggcatgaa cggcaaggaa ctggacggcc gcaacatcac cgtcaacgag gccagtccc 300
gcggcgcccg tggaggcggc ggcgggtgggt a 331

<210> 8397
<211> 157
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-026-Q1-E1-A7
<400> 8397

aaaaggtttc acatttactt acccttaaatt ggaagttcaa accctccaa aagggtcacc 60
aaaattcaat tcaagggcct tctttttaaa acgtctaaac tggaaaaacc ctggctttac 120
ccaattttaa ccctttgcag aaaatcccc tttccca 157

<210> 8398
<211> 375
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-026-Q1-E1-B5

<400> 8398

gtccagaatt cccggggccga cccacgcgtc cagccaattc gcctatcaca aattaaacca 60

tatcacacaa agcagacgta aatgtccgcc gacccaaca atgcgcgcaa caccgacatc 120

tggatagcag gcgccttcgc ggccttcacg gtcgacttgc tggatatccc gctagacaca 180

gtcaaaacgc gcatgcaaag cctcgactac aagaaactat acacaaatgg cgccgacgca 240

aaagtcaacc ggtcgatggt tcgcggcgta taccaaggaa ttggaagtgt aattctggcg 300

acattgcctt cttcaggagc attcttcacg acgtacgaag gagtgaaatc tatcctgaaa 360

gaacacaatc ctaaa 375

<210> 8399

<211> 263

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-026-Q1-E1-B6

<400> 8399

tttttgattc ataccctgtc caaccgacca aattgccaga tacacgatta caaagcgaat 60

gtaatatact ggttttgaca gctcgccgtg tccacaaagt gtgacgcaca aatactccca 120

ccacaaagat atacaatata agcatataag cagcaatctg catgcctcac tcaacaccaa 180

cagcacacaa cccaggtagc acagcctgtg gcttccccct gcccatgggtg aaacccttgg 240

tgccatcagg catgcggggg cct 263

<210> 8400

<211> 419

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB189-026-Q1-E1-B7

<400> 8400

ttccccgggcc gaccacacg tccacacaca cagagagaga caagtggttt ccaaagccaa 60

gtgtgtacta gcagtctagc aaccagctag ctcgggcggc agcaggcagc catcatgtcg 120

gaggagaagc accaccactt cttcaaccac cacaagaagg acgaggagca gcccgccggc 180

gagtacgggt actccgagac cgaggtggtc accgccaccg gcgaaggcga gtacgagagg 240
tacaagaagg aggagaagga gcacaagcac aagcagcacc tcggcgaggc cggcgccatc 300
gccgccggcg ccttcgcact ctacgagaag cagcaggcga agaaggaccc cnagcacgcg 360
cacaggcaca agatcacgga ggaggtcgct gcccgggcgg ccgtcggcgc cggcggcta 419

<210> 8401
<211> 217
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB189-026-Q1-E1-C3
<400> 8401

gggtcgacgc acgcgtccac ccacgagtcc ggccaggttg acgctgaaag ggtatactct 60
tcctatctag aacttaactt ggaagaggta naaccatgtc tatcangacc aaaacggcct 120
catgatcgag tgacattgaa gaatatgaag tctgattggc tttcttgctt ggacagcgat 180
gtangattca agggttttgc tgtcnccaaa gaatcac 217

<210> 8402
<211> 312
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-026-Q1-E1-C5
<400> 8402

cggtcgaccc acacgtccga ccacgcgtcc gcggacgcgt gggcggacgc gtgggctgtt 60
ctcgcactat aaatgtccta tctgatggac tggacatgga cgacgacatg gatgatcttg 120
attccgactc agatcttgat gttgacagca tcggtgagat tgtgtacgca atgtgagtaa 180
catctcaaca gccatctcag cagtcaacca aggaaccaat caagcatggg atgccctgtt 240
gtatactctg gcaataggca tgcatecttt tgtgaaaaac atccaagttc ttttcccaag 300
ggatcccaat gt 312

<210> 8403
<211> 200
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-026-Q1-E1-C7

<400> 8403

aggtataggt ctagaattcc cgggccgacc cacacgtcca caaaccaata agcaattagc 60
tcgagcaaag aggcagcgaa caccgcggc gacgcaagag ggagaagcga gcgtgcaccg 120
gtcctcctct cattcaaaat ggccatggcg gcaccggccg gaaaaaccg aaggtccccc 180
ctggcttccg gggttcctaac 200

<210> 8404

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-026-Q1-E1-C9

<400> 8404

acgcgcccag gtagccggtc gggaattccc ggctcgacc cacgcgtacg ctctctccac 60
cacagtcata agtggcggtta tcctcttcgt tctcgctcc ctggttggtg ttggctgggt 120
gttggcgagc tgggagtaga gaccgagaag tggagcggcc atgaagatcc agtgcgacgc 180
gtgcgagggc gcggctgcc a cgggtggtg ctgcgccgac gaggccgcgc tgtgcgcgcg 240
ctgcgacgtc gagatccacg ccgccaacaa gctcgcgagc aagcaccagc gcctcccgt 300
cgaggcgctc tccgccaagc tcccgcgctg cgacgtctgc caggagaaaag cggcgttcat 360
cttctgcgtg gaggaccggg cgctcttctg ccaggactgc gacgagcca tccacgtccc 420
gggcacgctc tccgg 435

<210> 8405

<211> 242

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-026-Q1-E1-D1

<400> 8405

ggtcaagaat accgggccga cccacgcgtc cagaagcagg taaagctctg gaaaccttga 60
aaaattggaa aggggaaaaa tccaggata aggtcccca atccttcaat cccccaacc 120
taccaaggac ggcattaacg gttgccaatg ggttaaagga ccttgctgga tttgtccttg 180

aaaagctagg acctaaaaat gcaatcttca ccaaagcagc cgatgccatg gtggaatgga 240
ac 242

<210> 8406
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-026-Q1-E1-D10

<400> 8406

ccgggtcgac ccaagcgtcc gcccccgca agtctgttaa gattggcaga cctgggtata 60
aagtaaccaa acaatatgat cctgagatga agcaacactc gtttcttttt gaaattgggtt 120

acccggaaat cgaagataat tgcaagccaa ggcaccgttt catgtcatca tatgaacaga 180
aagtccaaag ttgggataag gggtatcagt acctactttt tgctgcagag ccctatgaaa 240
ttattgcatt caagatacca agtacagaga ttgataaatc agcgaacaaa ttcttctctt 300
actgggatcc tgacaagaag gaatatctac tgcaactgta cttcaagcca agaccgccag 360
aagctaataa accaccacca gctcctccgg ggactttgcc taatgggact ggggttcctg 420
gtgctccaa 429

<210> 8407
<211> 239
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-026-Q1-E1-D2

<400> 8407

gcgccaacg acaccaaagg ggtgttggtg ttcaaatcg tctcgggaa atgactgccc 60
gtcaacgcaa gcgcacctgc tcccgtacag tgcttgcaat tgcaacaaat aaaaccaagc 120
ctgaattaat taaggttggg aatttaacct tgtaataacc gtccccccaa ccgtgttttg 180
tgaaactggt gacggtctgt taacgttata cgtgcatgtt attttaaaga tttcaaaaa 239

<210> 8408
<211> 304
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-026-Q1-E1-D3

<400> 8408

gggccgacgc acgcgtccag gtgtagtcac ggcaaaattc ttgcaccgac ttataaaaag 60
gtggcttcggt tttcaaattt ggataaagga tttgtaatgg caaaccttga ccctaaaaaa 120
aaaaggaatt tggctaaaaa ttagggatta atgggattcc caaccttaaa ttttttccca 180
aaggaaacca aacctggtaa aaattataat ggtgaaagga acttggttga ctttgtcaag 240
ttcattacca agaaaattgg tacaaccgtg gacacaaagg gtcaactaac ctcaaaggct 300
ggcc 304

<210> 8409

<211> 109

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-026-Q1-E1-D5

<400> 8409

aagcccttcg tcttctcgca gtgccagtc atccacgcc gctccgtctt cccttgccac 60
gacacccccg ccgcgcgcat caccttcccg ctctctctca acgtccccc 109

<210> 8410

<211> 90

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-026-Q1-E1-D6

<400> 8410

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa 90

<210> 8411

<211> 123

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-026-Q1-E1-D7

<400> 8411

ccggggccgac ccaagcggtcc agatcggtcca accccaacgc gtccgcccgc accgggttctc 60
 gatcgatgat catgtccggt tcgtccgcca tgaccaccgg tgccctcgcc gccgcctcgt 120
 cgg 123

<210> 8412
 <211> 365
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-026-Q1-E1-D9
 <400> 8412

cgcgcccagg taccggttag gaattcccgg ctcgaccac gcgtacgggg ggtattcatg 60
 tttggcatat gccagctctg accgaaatct ttggagatga ttccgtatta caatttggtg 120
 gatgaacttt aggacatcct tggggaattg cacctggtgc agcagctaata cgtgtggctt 180
 taaaagcctg tgtacaagct cgtaacgaag ggcgcgatct tgctcgtgaa ggtaatgaaa 240
 ttatcatagc agcttgcaaa tggagtgtctg aactaccgc agcttgtgaa atatggaagg 300
 agatcaaatt tgatgggttc aaagcgatgg ataccatata caataaaagc aaagccgcaa 360
 cagtc 365

<210> 8413
 <211> 383
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-026-Q1-E1-E10
 <400> 8413

gaattcccgc ctcgaccac gcgtacggc acgcgtccgg aagaagacga gtgtcaagtg 60
 aacctgaaac ttgcggtgtc actggctggt agcctgagtg tgagtgagtg atcgagctag 120
 ctgagctccg atcctcgcta gctaggatac cgccatacca caagtcttct tcacaagttt 180
 aggagtgaca gcaacaagag atcgatggcc tctgccaccg tgctcaagtc ctcttcctt 240
 cccaagaagt ccgaatgggg cgccaccagg caggccgccg cgcccaggcc gccaccgtc 300
 tccatggtcg tccgcgcctc cgctacgcc gatgagctcg tgaagaccgc gaaaacgatc 360
 gcgtcgccgg ggcggggcat cct 383

<210> 8414
 <211> 292
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-026-Q1-E1-E5

 <400> 8414

 ggtacaggtc tagaattccc gggccgaccc acgcgtccac ccacgcgtcc gagtcagcac 60
 cgccttctgt gctgagattg ttgagtcgc agatgcctac ctctttgcag gccccatttt 120
 caatgactac agctctgttg gctactcatt cctcctcaag aaggaaaagg ccatcatcgt 180
 ccagcctgag cgtgtgatag tggggaatgg gccggcattc ggatgtgtga tgatgaaaga 240
 gttcttgtct gaattggcta agaaggtaa taagaacacc actgcctatg ag 292

<210> 8415
 <211> 340
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-026-Q1-E1-E7

 <400> 8415

 gaccacacg tccaccacg cgtccgcgga cgcggtgggtt tttttttttt tttttttggt 60
 tttagaaga aaagctgtga tatttcataa ccctacagag acaaccagaa gataatagaa 120
 aaaatcatat agcatgtatc tgtgaaaata aatagctttg tgacactgac acgcaccagt 180
 gccaaagcca aacaacagag aacatcccaa gatgccaaact tgttctagca actactacat 240
 tacattttca actttctaaa atggccactt gggtcaggcc accagaggct gatcaggcaa 300
 acctgcccc aacgcggtaa tccttacgga agtccgtcat 340

<210> 8416
 <211> 307
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-026-Q1-E1-E8

 <400> 8416

 ccaggtaaag gtccagaatt cccgggccga cccacgcgtc cagcaagccc aagccagcgg 60

cggtccggcag cccctgggtac gggggccgacc gcgtcctgta cctggggcccg ctgtccggcc 120
agcccccaag ctacctgacc ggcgagttcc ccggcgacta cggctgggac accgcggggc 180
tgtccgccga cccggagact ttcgccaaga accgcgagct ggaggatgac cactgccgct 240
gggccatgct gggcgcgctc ggggtgctgt tcccggagct gctcgcccgc aacggcgctca 300
agttcgg 307

<210> 8417
<211> 407
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-026-Q1-E1-E9

<400> 8417
ccggctcgac ccacgcgtac ggttgatcct tgggtatcaag ttggcttcgt cctcacaacc 60
ggggtcaaca gcgcatacgt tctaggatac tctggatcaa tcatgggtccc tctaggctgg 120
atcggcggca catgcggcct cctcctagct gccgccatat ccatgtacgc taatgctctt 180
cttgcacggc ttcattgaagt cgggtggcaaa cgccatatca gatacagaga ccttgctgga 240
cacatatatg gaccgaaaat ttacgggctt acatgggctc tgcagtacat taaccttttc 300
atgatcaaca ctggctttat catcttagct ggacaagctc tcaaggccac gtatggactg 360
ttcagtgatg atggagttct gagactccct tactgcattg cgatatc 407

<210> 8418
<211> 313
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-026-Q1-E1-F1

<400> 8418
gggccgaccc acgcgtcgac caaaacttcg gccaaagcctt cggccaacgc ttcgattaaa 60
atacatactg gccacccgt gattccttca ccagcagtt cgtaaccacc tgctaaatca 120
tcaaaaagat gccccctgc aaagtagcag cagccttact cctgttgatc atcacaacaa 180
tttctgtcaa caccgtaact gggtcgcat gtaacgctca agagaagaac cagattgtga 240
gcttgtgcca aatgtacatc cagagaggaa ccctcgttca gctcccatcc caaactgggc 300

catgctgtgc cgc

313

<210> 8419

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-026-Q1-E1-F6

<400> 8419

ggtaatggtc cagaattccc gggccgaccc acgcgtcaag gaaacaccgc cgccgccgcg 60

ccttccattc cagtactcgc ggaggaaagg aacaccagcc agcgccatgg tcacgtcgac 120

gaccgccgcc gccgtgctgt ccccgccgtc cgtggccggg cttcgcttgg cgccgtctcc 180

ccgggcgcgc gtggcggttc gcgcggcgcc ggcgcggcgg tccgtggcgg cgcgcgcgga 240

gctgagcccg tcgctgggtga tcagcctgag cacgggcggtg tcgctcttcc tgggccgctt 300

cgtcttcttc aacttccagc gggagaacgt ggccaagcag gtgcccagac agaacggcaa 360

gacgcacttc gacgccggcg acgagcgcgc caaggagtgc tcgggcctgc tcaagttcaa 420

cgaccccggtg ggcttcaacc tcgtcgacgt cct 453

<210> 8420

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-026-Q1-E1-F7

<400> 8420

aattcccggg ccgaccacg cgtccaatta accctcgttc ctgtcgcgca gccacgacct 60

ccacttccac atcttccccg gcggcgggcg ggtcagttga accatggcgg actccaaggc 120

cacctcggcg gtcaccctcc gcaccgcga gttcatgacc aaccgcctcc tggccccgcaa 180

gcaattcggtg cttgaggtga tccaccccg gcgcgccaac gtctccaagg cgagattgaa 240

ggagaggctt gccaaaggcg acgaggtgaa ggacccaac accatctttg tcttcaagtt 300

ccgcacccac ttcggaggag gaaagtccac tggtttcggc ctcatctacg aaaaactcga 360

ggctgccaag aagttcgagc cgaaataccg cctcatc 397

<210> 8421
 <211> 380
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-026-Q1-E1-G10

 <400> 8421

 ttccccgggtc gacccacgcg tacgcccacg cgtccgcccc cgcgctccgcc caagtgcgac 60
 cacgtcgccg tcggcaccgg caccgtcacg cacaaggccg acatcaagaa gtttcaggcc 120
 gccacgcgcc tccgcgccaa ggacaagatt gagggcgcca agatcatccg cgtcgaggcg 180
 caccatcc ccgagcacc caggcctaag aggggtgtccg ggcggggtgac gctggtgggc 240
 gacgccgcgg ggtacgtgac caagtgtcc ggcgaggcca tctacttcgc ggccaagagc 300
 gggcgatgt gcgccaggc catcgtggcg ggctccgcca acgggacgcg gatggtggag 360
 gagagcgacc tgcgcaagta 380

<210> 8422
 <211> 396
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-026-Q1-E1-G12

 <400> 8422

 ctccccgggtc gacccacgcg tacggaaacc cactctctct ctccccgat tcctttcctc 60
 gtctcatcc gtccagggga gcaaacaagc aagcaagtaa acgggagagg agctggatag 120
 aggccggcga cgccaagcaa ccgccgatcg gagccgcggc tgaggaggag gagcaagctc 180
 gagatggtgg gtctcgtcgg cggcagcacg gcgcggggcg agcacgtcgt ggccaacgcc 240
 ggaggagaga cggagtacgt gcgccgctg caccgccacg cgccggccga gcaccagtgt 300
 acttccaccc tcgtcaagca catcaaggcg cccgtccacc tcgtgtggga gctggtccgg 360
 agcttcgacc agccgcagcg gtacaagccg ttcgtc 396

<210> 8423
 <211> 285
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-026-Q1-E1-G6

<400> 8423

aattcccggg ccgacccacg cgtccacca cgcgtccgct ttcttggaga tctcaagag 60
gcttgagaag ctcaaggagc attattcaca cgagaaccac tggcatttgt tccagtagca 120
gtgcgcatat aatcatacag tatatTTTTT tactatgact gttgtcatga ttggggcttt 180
ctcgggagat ctgacattga tgaatgtaca aaattgggtg cctctagaaa ggtccactga 240
gactgaaaaa tcttcttgct gttttacgtc gatgctatTT ctggt 285

<210> 8424

<211> 67

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-026-Q1-E1-G7

<400> 8424

accacgcgt ccgaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
accaaaaa 67

<210> 8425

<211> 72

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-026-Q1-E1-H1

<400> 8425

aagaggttcc aagcttaagt acgcttgcac gcaaagtcaa agctcttcta taatgtcacc 60
aagaattcaa tt 72

<210> 8426

<211> 156

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-026-Q1-E1-H10

<400> 8426

agcccacgcg tccgaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg 60
aagaaaatca aaaaagataa aaacttacat atacatgaca tcaaaaaataa taactcttca 120

aaaaagtaac ctcaaattca attcacgggg cgctcc

156

<210> 8427

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-027-Q1-E1-A10

<400> 8427

gggtctagaat acccgggccc acccacgcgt cagctggggtc gaagcacaga ttgagaaaca 60

ttctagaagc cgtatagaac tcatgggtgaa ggcaaggagt cagtttaaag aaagaagcac 120

agcaacgaat gttgaaattg aagtgcctgt tccttcagat gccacaaacc caaatataag 180

aacttcaatg ggggtctgctg catatgctcc tgagagagat gcaatggttt ggaaaataaa 240

atcattccct ggtggcaagg aatacatgtg cagagcagaa tttagtcttc ctagcataac 300

agcgggaagaa gggggcccag aaaagaaggc gccgatacgg gtgaaatttg agataccata 360

tttcaccgt 369

<210> 8428

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-027-Q1-E1-A12

<400> 8428

cggtccagaa ttaccgggcc gaccacgcg tcagcccacg cgtccgatct actgacctgt 60

gacctccgca ttccaaca gcccagcgga gctagagcta gcagagcggc aggcacctcc 120

ctcctcaagg aacatggccc gcacgcagca gttggcagta gtggcgaccg ccgtggtggc 180

cttggtgctg ctggcgggcg cgacctcgga ggcgccatc agctgcgggc aggtggcgctc 240

ggccatcgcg cctgcatct cctacgcgcg cggccagggc tcggggccct ccgccggctg 300

ctgcagcggc gtcaggagcc tcaacaacgc cgcccgacc accgccgacc gccgcgccgc 360

ctgcaactgc ctcaagaacg ccgccgc 387

<210> 8429

<211> 376

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-027-Q1-E1-A2
 <400> 8429
 gggccgaccc acgcgtcagt atcgatccac gcatccctcg cgagctccaa cagaattgga 60
 agcaaacaaa ccctgcaaca tgcaaacaaag ccctgacgct ttaaaacatc ggccggcact 120
 cgattcgcag caggtcaaag atggcggctg aagaaggga caaagcгаа agccgctgag 180
 gcgggcagca aatgacggtg gtgccggggc tggacgtggc gcggtacatg gggcgggtgt 240
 acgagatcgc gtcgttcccg tccttcttcc agccatggga ccggcgcgat acgctcgcca 300
 gctaccggct gctggaggac agcgccacgg tgcacgtgct caacgagacg tggagcaagg 360
 gcaagcgcca ctacat 376

<210> 8430
 <211> 351
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-027-Q1-E1-A6
 <400> 8430
 aggttggttg catcataaaa aagatctgta taaattcgcg cccaagctga ttatgccact 60
 gtggaaatgc atttggattt ccgtagtgtc agtccggtcg atagggtgcc ttgggttctt 120
 catggcacga gcaaatgttc tgattcttgt attcgaatgt tttgaaatat tctgtctgac 180
 gggactgcgg agttggcgcg agaagtgtgc ttgttcagtt gttctatctg aaggcttagc 240
 tgtctgtagc tgtagctggt aacaacagtg gctaaaatgg tacctgaaat ctttgtgaca 300
 gtaacaagcc atttttcttt gaaaaaaaaa caatacgaaa aaaatagaat g 351

<210> 8431
 <211> 379
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-027-Q1-E1-A7
 <400> 8431
 ccggctcgac ccaagcgtca gatcagatgt tcgatgcaat aatttgtgac ccaccatag 60

gagtcggggc cggtggccgg aagtctggtg gtcggaagct cataaaaggc gtcaaaggcc 120
 cttacacagt gcctgatgag aaacgggaca atcacatccc atcaaccgcc ccatatagcc 180
 tcgcagagtg cgtccatgac ctccctccacc ttgccgcaag gatggtagtc atgggtggca 240
 ggctcgtctt cttctaccct gtactgagag gtgaagatgg cactgccaac ccgcagttcc 300
 ctgagcaccc ctgcttcaag ttaatcacct cctctgagca gatcctgagc tttcgggtaca 360
 gccgggttct gctgaccat 379

<210> 8432
 <211> 374
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-027-Q1-E1-A9

<400> 8432
 gtaccggtct agaattcccg ggccgaccca cgcgtcagca ctggtgtcgc actgctcagt 60
 tatccctggt ggtgtgccgg tgactgagtt tgcaattcca ccctcagcat cttcgctagc 120
 ggtgaggctg ccatcgttgc tcgcttgctg acgctcttca aggaaacacg tggtagatgg 180
 gcaagttcgt tgtgcggcaa ctgcggaagc tgggcaacca gatcaccatc gcatccacca 240
 tggtaggtct tgtggagtgc aagggtgtacg cgtacaaggt cggctctggat gtgatcaagt 300
 tgctggagcg catgcagatt cgacaagagg ggtggtagct ttggaagttg agatgagctt 360
 gcgctgtgga gaac 374

<210> 8433
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-027-Q1-E1-B10

<400> 8433
 ggtccagaat taccgggccc acccacgcgt cagcacgcaa acgcaagctc ccaagcagct 60
 accaaccagc cgggagaggg agcgcacgca ctgcgagaat ggccacggcc ggccgagggg 120
 ccgggcatct gaagctgctg ggcgcgtggc cgagccccctt cgtgaaccgt gtacgcatgg 180
 cgctgcacct caaggggctg gagtacgaga acgtggagga ggacctcacc aacaagagcg 240

acctgctcct cgctccaac cccgtccaca agctcgttcc cgtcctcctc cacggcgaca 300
agcccatctc cgagtcactc gtcacgtgg agtacctcga cgacgccttc cccggcgctg 360
gccaggccgt cctccccgcc gaccctatg 390

<210> 8434
<211> 375
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-027-Q1-E1-B12
<400> 8434

ggtccagaat taccggggccg acccacgcgt caggtgggtgc gatcctcgcc gagtcatcc 60
cgaccacgcc ggcgcgccgc ggcggcgccg cgtggccgc cggaagtgc aagcggcgga 120
aggcgaacga cttcgaggcc gcgttccggg agttcgacga ggactccgag gaggaggagg 180
aggacgacga gggggtggtg gagagcaagc ccgccttcgt cgtcgtcgcc tcgtccgcgg 240
cgacgcagcc cagggcgccg caggagcagc ggagccggcg cggggcgccc gaccagcagc 300
agtacagggg cgtccggcg cgcctgtggg gcaagtgggc cgccgagatc cgcgaccccg 360
tcaagggcgt ccgcg 375

<210> 8435
<211> 379
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-027-Q1-E1-B9
<400> 8435

ggtccagaat taccggggcc gaccacgcg tcagcccacg cgtccgccga catggcaagt 60
ggtctcatgc caaatgcacc gtgacatgag ccaaacaacc catgaacgtc gctccgtagg 120
ggacggggaa agcaattcca gcagaccac acacgtcgcg tcttccatgc atagaaacga 180
gggaaagcgg tttcagcagc agtggggtgg agccatttta ctcactctaa tccgtccacc 240
aacttggtc caaaaagtcg taccgaggcc cctcaagcga tagcgggtgg ggatctgctc 300
ggcgccggtg gcccgacgt ctccagctac tccgacttac ctacgtcctc caaggtacgc 360
acgtacgtac atctgattt 379

<210> 8436
 <211> 373
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-027-Q1-E1-C11

<400> 8436

gggccgaccc acgcgtcagc ccaagcgtcc gatcataaca tcaacggcat cctggctggc 60
 catggttggt gttctggctg gtctcacctt tctgatgggt cctgttacga tgctaaagct 120
 ctacggagtc ccatactttg tatttggtgc ttggctggat atggttacat acttgcacca 180
 tcatggccac gaagacaagc ttccctggta ccgtggacag gaatggagtt atctgcgtgg 240
 aggactgacg acgctcgacc gggactatgg actgattaac aatatccacc atgacatcgg 300
 aactcatgtc atccatcacc ttttccctca aatcccacat taccatctca ttgaggcgac 360
 cgaggcagca aaa 373

<210> 8437
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-027-Q1-E1-C12

<400> 8437

ggtccagaat atccggggccg acccacgcgt cagcggacgc gtgggtggca gagatgctct 60
 catatacaag taaaagcaac tttatttggt ccttggttgg gcggaaacca ggccgggact 120
 cgggagcatt ttgcattttc ttggcgtggt agcttttgat acggtgaagt cactgactcg 180
 tggagtgatg ttgctcaata atcagaacct tgtcctaata cagccgctga gacatcagct 240
 aaggcgaata agggaaggat gagtcatttg caccatgttt gaccaccaat tgtaggtgg 300
 tccatatatt ttgtactaat tgtgagactt tgtgctatgg atctcaactg tataccttgc 360
 tggtgcatgg ctttgggttt acatgggtga aaatgagatt ggggtgccc 409

<210> 8438
 <211> 332
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-027-Q1-E1-C2

<400> 8438

gccgaccac gcgtcaggca accgccgtcg ccccgttcca gggctctcaag tccgccgcca 60
gcctccccgt cgccccccgc agcaccagga gcctcggcaa cgtcagcaac ggcggaagga 120
tccggtgcat gcaggtgtgg ccggcctacg gcaacaagaa gttcgagacg ctgtcgtacc 180
tgccgccgct gtcgacggac gacctgctga agcaggtgga ctacctgctg cgcaacggct 240
ggataccctg cctcgagttc agcaagctcg ggttcgtgta ccgcgagaac tccacctccc 300
cgtgctacta cgacggccgc tactggacca tg 332

<210> 8439

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-027-Q1-E1-C3

<400> 8439

gggccgagcc acgcgtcaga gagtataagc ttgacctcta caataacgct ggagtacatt 60
attgtatcag cagcatctcg ctcgtagcca tgatgacgac gagaaaagtg gccgcggcgg 120
gaggcgggga ggcggaggag atgaggcgga gaaacgccga gctcgagagg gcggcggcgg 180
aggcggcggc gagggaggaa cggctgcggc gggagctgga ggcggccctg gcgcggctgg 240
ccgtggccga ggaggccgag gagcgctgt gcgtgcagct cggcgagctg gaggccgagg 300
ccgtggagca ggccgtcgag taccaggagc gtgtcagggc gctgtccgag cgcctcgcct 360
tccttgacgg cgtgc 375

<210> 8440

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-027-Q1-E1-C9

<400> 8440

ggtccggaat acccgggccg acccacgct cagccacgc gtccggccac ggcttcctcc 60
tccgcctccg cctccgtctc gccgcgccg cctcctcct cctcctcgtc gccggcggtg 120

ctccagttcg acgagcagca gcagcagcaa aatccgaggc cgcgtgcgcc ggcggtcc 180
 gggccacgg aggaaccgcc caggccggcc cggggtcag ctccgggtcc ggctccggcg 240
 tcgtcctcgt ccgtccgccg gtgccagacc tgccgcaagc ggggtgggct cacgggcttc 300
 cgctgccgct gcggagacct cttctgcggc gcgcaccgct actcggaccg ccacgactgc 360
 tgcttcgact aca 373

<210> 8441
 <211> 352
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-027-Q1-E1-D1

<400> 8441
 acgcgtcagg cgtcgcgtcg catcctacga ttcaaagctc tctctgctcg caggtcgcag 60
 ccatggcgaa gaactaccgc accgtgagcg ccgagtacag cgaggctgtg gacaaggcca 120
 ggcgcaagct ccgagccctc atcgccgaga agagctgcgc cccgctcatg ctccgcctcg 180
 cgtggcactc cgcggggacg ttcgacgtgt cgtcgaggac cggcgggtcca ttcggcacga 240
 tgaagcatca gtcggaattg gctcacggcg ctaacgcggg gctggacatc gcgggtgcggc 300
 tgctcgagcc catcaaggag gagttcccaa tcctctctta cgccgatttc ta 352

<210> 8442
 <211> 453
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-027-Q1-E1-D10

<400> 8442
 ggtccagaat taccgggccc acccacgcgt cagagagaag aacgaacctg agtttgctaa 60
 gaagcttgca tctgttgctg acctttatgt caatgatgct tttggcacgg cacacagagc 120
 tcatgcttca accgaaggag ttaccaagta tttgaagcct gctgttgctg gcttcctcat 180
 gcagaaggaa cttgactacc ttgttgagc tggtgccaac ccaaagaagc catttgccgc 240
 cattgttggt ggatccaagg tctcaactaa gattggtgtc attgagtcgt tgctggcgaa 300
 ggtcgatatc ctcatccttg gtggtggtat gatctacaca ttttacaagg cacagggata 360

ttctgttgga aaatctctcg tggaagagga taaactcgaa ctcgcaaaat ttcccatatt 420
gaaagggcaa gggcaaaggg ggtttctctt ttc 453

<210> 8443
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-027-Q1-E1-D12

<400> 8443

ggtccagaat acccgggccg acccacgcgt cagcccacgc gtccggcgcc cgcgaaactct 60
agaggacttg cgcacaagtg acggacaggt tgggcccacg tgcggtgtg cgcgtttccc 120
agctgagccg tggggaaaga gaggatgaga tgggccgaaa acatggaacc ttgcccgact 180
atgttccttt actttctctt tttctttttt tatgtttctt ttctttttcc aaattcaagg 240
attcaaacta aatttcaatt cctgttttga acttcagatt tccaaatatt gcacaatcct 300
attgtgaata taacttctac tatttgcatt aatattattt atttttcttc ctattattta 360
attatggaag ggataattga ctttataaga acttt 395

<210> 8444
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-027-Q1-E1-D9

<400> 8444

gccagggccc ggtccagaat acccgggccg acccacgcgt cagggtctct ctcctcctcg 60
cctcctctcc ctagtctcca cgacgcaagg gagagtgcg gaaagcgacg cggcgcgagc 120
gaggagggcc aaggcgaaga ggggaagcac cgcaccagga cccttggttcg ccgccgccgc 180
ctctgatctc cgcgaggttg tcaggattca atatgtcgac cagcacattc gctacttcct 240
gcacgctggt gggcaatggt agaacaacgc aggctccca gacagcggtg aagagccctt 300
cgtctctaag cttcttcagc caagttacga aggttccaag cctgaagacc tccaagaaac 360
tggatgtctc cgccatggct gtataca 387

<210> 8445
 <211> 355
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-027-Q1-E1-E10

 <400> 8445

 cgggtctagaa taccggggcc gaccacgcg tcagcagagg aaaacaaagc tattgaggag 60
 ccagaagagg tgagtgcaca gctgccagat gaccatgtaa cttctgagaa gtcgtcagag 120
 gaagacaaag aaaacgcaga ggcacagta gacagtgtc ccctggggaa ccattggag 180
 gtcaatgagg agagctcaa tccttcagg gatactgtaa ctctgagaa gccactggag 240
 gaggataaga cgagcgcaga gccacagaa agcgatgcat cctttgggaa aatattggag 300
 gccgatgaag tgagtgaac ccatcagagg atattgaac tcctgagaag ccact 355

<210> 8446
 <211> 364
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-027-Q1-E1-E11

 <400> 8446

 ggtccagaat atccggggccg acccagcgt cagcccacgc gtccgcttct cctccccctc 60
 cgggttcgggt tcgggttcgt gaggttctcc ggggttcggt ttcgtgggtg agcggatcga 120
 gatggcggcg tcggatgttg agtaacgctg ctctgtccgc cgcctcacct gagccacgga 180
 cgaccactcc ctccacaacg ccttcagcac ctacggcgag gtcctcgagt ccaagatcat 240
 cctcgatcgg gagacgcaga ggtcccggg ctteggcttc gtcaccttct ccacggagga 300
 cgcgatgctg aacgccatcg agggcatgaa cggcaaggag ctggacggcc gcaacatcac 360
 cgtc 364

<210> 8447
 <211> 413
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-027-Q1-E1-E2

 <400> 8447

cggtcaggaa ttaccggggcc ggcccacgcg tcagggtccat gcgggctgcg gccctgcctt 60
 ttctcccatt cccctcacca cgtgacacgc gctctctccc gagtcccgac gaccgggcaa 120
 cagccgccgc cgccactcag cctccgtcgc cgtcggggccc ttcgccggcg gcgaacacca 180
 tcagggtgtac atgcgtacgc ccatgccctt ggctgcgccc gccctgcaa gtggtttctt 240
 gctgggtctgt gtggatttgg ctgccggaag attgattgat gcggccttca ggatcactgt 300
 agactcgctg tgagattcca aggctgctca ggtcatgttg ggggaccagt gcatacata 360
 ggcgtagac tcggttagct catcaagctc tgcccctgat tcgaaccccc ccg 413

<210> 8448

<211> 71

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-027-Q1-E1-E3

<400> 8448

caaagggtcc aagcttaact tagcctgcaa gggaagtcac acccctccaa aggggtcacc 60
 aaaatcaaat t 71

<210> 8449

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-027-Q1-E1-E9

<400> 8449

ggtccagaat acccggggccg acccagcgt cagggaccac ctccacggcc acggcaagac 60
 ggccaagggtg atgcacctgc tgctctgggg acccaagtga agcggcgaga ggccaccgta 120
 ccgcccgggct ctcccgtgg cggtgctcgt tttgctctgc ctgcaatccg ccccgacgg 180
 actgtactgt acctatatat acacctacat actacgacgt gcacctgtac tacgacgtgc 240
 tgctgtacca tactaaatac tagtgcgctg ctgctccctt gccttcttgc ttgcaccagc 300
 cactccgctt ttttgctcga acgatcgact gctcgtgtcg cgtcggggcca cggccggtcg 360
 tcagtttggg tgtgtccact ccactg 386

<210> 8450
 <211> 362
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-027-Q1-E1-F10

 <400> 8450

 gggccgaccc acgcgtcagc ccacgcgtcc gcccacgcgt ccgcccacgc gtccgggctg 60
 ccgcctgcag ggcaagtact tcttccacga gcagatttca aggcacgcga ccatcatgaa 120
 tatctttgac aaaaccctc atgtgcataa agacgcattt gttgctccaa gtgcacccct 180
 tattggtgat gttcaagtcg ggtcaggagc ttccatttgg tatgggtgcg tcttaagagg 240
 ggatgcaaac atcatacaaa ttggatctgg gaccaatata caagacaatt ctcttataca 300
 tgtggctaaa tctaattctaa gtgggaaggt ctttccaaca accattggta ataacgtcac 360
 ag 362

<210> 8451
 <211> 389
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-027-Q1-E1-F11

 <400> 8451

 gggccgaccc acgcgtcagg accaactagc aacatagaaa gcacaatagt gtaccaacaa 60
 tggcagccaa aatattttgc ttccttatgc tcttgggtct ttctgcaagt gctgctaccg 120
 cgaccatttt cccgcaatgc tcacaagctc ctataacttc ctttcttccc ccatacctct 180
 caccagcagt gtcttcagtg tgtgaaaacc caattcttca accctacagg atccaacagg 240
 caatcgcagc aggcattctta cttttatcac cttgttctct ccaacaaccg tcagccctat 300
 tacaacagtt acctttggtg catttggttg cacaaaacat tagggcacia caactacaac 360
 aacttggtgt aggaaacctt gctgcatac 389

<210> 8452
 <211> 414
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-027-Q1-E1-F12

<400> 8452

aacctgccag gccggtctag aattaccggg tcgagccacg cgtcagtgc agaaaaaatc 60
tacatgttga tggcgtggat cagaaaaatg gtaagttttg cttcatagat gtattaatat 120
ttggaatctc aataaacccc tcttggtttc cgtctgctaa catattcgta tggaaccag 180
cacaaaactc aacgagaata atgatgcaat gatacataca tgtccacagt ccatacgttt 240
tttttgaaga aataacactt ttctagatga gataattagc acatgtgcaa ttagccaatt 300
actgtcttgt gttatgtgag ccattggatt tgatttttat atcctagaaa gtgattcatg 360
ttacacttga cctgagattc atggaaccaa ttggttgagc tgcacattca aatt 414

<210> 8453

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-027-Q1-E1-F9

<400> 8453

ggtcaggaat acccgggccg acccacgcgt caggacacct tgcccatatt caggtactta 60
tagggcatgg atatgggaag cttccttact gtccttgagc tctagattcc ctgcatatgt 120
aaggtgggtcc ttgtgccgtc aagatgggtgt aacttcctct cccagtcctc tagccttgat 180
ctgtactaga gccaaacacg ccagccctct ccgtgggtgac cattgtccac atcactgtgg 240
ctagagctcc caacagaagg agtgtaaatt taagatgaag tggttgtgga agaggagt 300
gtccttttgc ctattcatca agtggatgga gctatctaac tggttattgg gtagaaaggt 360
cttgagcctc ttcactgcaa ca 382

<210> 8454

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-027-Q1-E1-G11

<400> 8454

ggtcaggaat atccgggccg acccacgcgt cagcccacgc gtccgcggac gcgtggggga 60
aaacaagtca aatgcaactc ctatcaatta cagcgagaag gatattacag taatattcag 120

aaggaggggt ggttgtgatc ttgttcaaag ttttagtgat tggaaaggaa ctgttgccctc 180
 agcaccagat gtcataggca tgacctttct ttcaattgtc tctcttggtg acgatgtacc 240
 aggaaagaag caccttgctc gtgcagttga gctatacttg acctacaaac ctccaattga 300
 agaattacag tattttcttag attttcaagt cccactagtt tgggctccag ctccaccagg 360
 tattgctagt caccatagga aggaacctgt ctgccc 396

<210> 8455

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-027-Q1-E1-G12

<400> 8455

cggtcaggaa ttaacgggtc gagccacgcg tcagcccggg aagaacttcg tggtgctggt 60
 cggcaggctc ctctctgctg agctcttcct ccgctacgac acattcaccg ccgaggtcgg 120
 caaggagctg ctcggcacca gcgtcatctt caccggtgtc acgaaagcta cctccggtcc 180
 gggcagcgag taaaccgccc ggccggcgcg cgctggttga tatatgatga gtggacgtga 240
 cagagtgtcc cattattttct taatttcgtc attttctctc ttctttctaa taagacttct 300
 ctctcaccct cggccccacc ttcacgtgtg attggaggtg tttgtcgctt ttgtaataat 360
 tataatgcag gatggcatgt tgcacaaatt gctccccaaa aaaaaatctc tactttttca 420
 aaggaaaaac cccctc 436

<210> 8456

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-027-Q1-E1-G2

<400> 8456

cgggccgacc cacgcgtcag cccaagcgtc cgcccacgcg tccggacgac ttgtttcatt 60
 gattcttgaa gagatcgagc ttcttttgca ccacaaggtc gaggatgtct tgcaactgcg 120
 gatcaagctg cggctgcggc tcaagctgca agtgcgggcaa gaagtaccct gacctggagg 180
 agacgagcac cgccgcgcag gccaccgtcg tctcggcgt ggccccggag aagaaggccg 240

cgcccagagtt cgtcgaggcc gggcgaggag cggcgaggc cgcccacggc tgcagctgcg 300
gtggcaactg caagtgcgac ccctgcaact gctgatcaca tcgatcgacg accatggata 360
tgattattat ctatctagct tgtggtggtg gttgaacaat aataag 406

<210> 8457
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-027-Q1-E1-G7

<400> 8457

aattccccggg ccgacccacg cgtcagcgcc gccatcatgc gggagggccc caacctcttg 60
aagctggcgc gcaaggagca gtgcctggcg ctcggcacca ggttgcgctc caagtacaag 120
atcacctacc agttctaccg cgtcttcccc aacggcgagg tgcagtacct ccaccccaag 180
gacggcgtct acccgagaaa ggtcaacccc ggcagggagg gcgtcgcca gaacttccgc 240
agcatcggca agaacgtcaa ccccatcgac gtcaagttca ccggcaaggc caccttcgac 300
taatcacact tcacgtacgc cgcacgcccc 330

<210> 8458
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-027-Q1-E1-G9

<400> 8458

ggtccagaat acccgggccg acccacgcgt cagggcgccg actaacaacc tcgccgacgg 60
cgggtaccac atgtataaag acatgctgga gtggatcggc cggccggcga agaacgttcc 120
ccagcagccg acacagccgc tgcgggtgtc catctccaag aagctacggg cgtacgtgga 180
ggacaagtat agccgcgccg gcgtggagaa gggcaagtac gtcgtcatcc acggcatcgc 240
ctctgactcc gtcgccaaca tgaagtccag aggcgacgac gactgccttc ttcccctcgg 300
gcactgggct cagatagcca aggaaatcag ctccggcgac aggggggtca agcctctgtt 360
cgtgatccct catgagaagc acagagatga aatccaggaa gaa 403

<210> 8459
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-027-Q1-E1-H10

 <400> 8459

 gacccacgcg tcagacttgt ttcattgatt cttgaagaga tcgagcttct tttgcaccac 60
 aaggtcgagg atgtcttgca actgcggatc aagctgcggc tgcggctcaa gctgcaagtg 120
 cggcaagaag taccctgacc tggaggagac gagcaccgcc gcgcaggcca ccgtcgtcct 180
 cggcgtggcc ccggagaaga aggccgcgcc cgagttcgtc gaggccgcgg cggagtccgg 240
 cgaggccgcc cacggctgca gctgcggtgg caactgcaag tgcgaccct gcaactgctg 300
 atcacatcga tcgacgacca tggatatgat tattatctat ctagcttgtg gtggtggtg 360
 aacaataata agcgaggccc aactcgggg ccatacatag gtattgtgtg gtgtgtgtga 420
 gagagagaga aacag 435

<210> 8460
 <211> 394
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-027-Q1-E1-H11

 <400> 8460

 ggtccagaat acccggggccg acccacgcgt cagccttgac attctcaaag agcagtggag 60
 ccctgctctg acaatttcta aggtcctgct ctccatctgc tcctgctga ccgaccccaa 120
 cccggacgac cctcttgtcc cggagattgc ccacatgtac aagacggacc ggccgaagta 180
 cgagtcgacg gcccgcagct ggacgcagaa gtacgcgatg ggctgacgaa cgctttcctg 240
 ctctgccacc cgactggcgt ctcaagaaag ccgttcctgg gcgccattgt tcccttggat 300
 ttgttggttg tcgtgtgtat cctgatcca tctaggatca tcgtattgta ttgtattgta 360
 gtgtatgtcg tcggcttacc atcgttgcc tcca 394

<210> 8461
 <211> 380
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-027-Q1-E1-H12

<400> 8461

gggtcgacgc acgcgtccgc ccacgcgtcc ggcattcaaa aacacaccaa gcgaagcgca 60
ctagcaacga cctaacacca atggctacca agatattagc ctccttgcg cttcttgccc 120
ttttagttag cgcaacaaat gcgttcatta ttccacagt ctcacttgct cctagtgcc 180
gtattccaca gtctctccca ccagttactt caatgggctt cgaacatcca gccgtgcaag 240
cctacaggct acaactagcg cttgcggcga gcgccttaca acaaccaatt gcccaattgc 300
aacaacaatc cttggcacat ctaaccctac aaaccattgc aacgcaacaa caacaacaac 360
agtttctgcc atcactgagc 380

<210> 8462

<211> 417

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB189-027-Q1-E1-H2

<400> 8462

ttcccgctc gaccacgca taagaaacca aacgatacag gaatacgata cgccgctcgc 60
ctgaatcgag accaccaccg ctcccgccct gcctcacctc gccgactaga gtttttgccg 120
ccgcggatct cgccgtcccc gccatggacg cgtcgcacac gggctcctcc gcagccgccg 180
gcgacgcccc gaccaccggg gagcaccgga tggggaccac cattgtcggg gtctgctacg 240
atggtggcgt cgtcctcggc gctgattcca ggaccagcac tggaatgtat gtagccaacc 300
gtgcttcaga caagattacc caattgacag acaatgtgta cgtttgctgc tctggatctg 360
ctgctgatac acaagtcatt tcggactatg tacgttnatt cctccaacaa cacacaa 417

<210> 8463

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-027-Q1-E1-H7

<400> 8463

cccacgcgtc cgacgagaga gagcagacca ttaaccagct cttgacggag atggatggct 60
tcgctggcaa cagcgggtgtc attgtgcttg ccgccaccaa caggcccgat gtgctggact 120
ccgcgctcct acgaccaggg agatttgata ggcaggtcac cgttgacagg ccagatgttg 180
ccggacgcgt caagattctt gaggtccact cccgaggaaa ggctttggcg aaagatgttg 240
attttgataa aattgctaga aggacccttg gtttactgg tgctgacctc caaaacctca 300
tgaatgaggc tgccatcctt gctgctcgcc gtgatcttaa ggaaattagc aaggatgaga 360
tctctgatgc tcttgagaga atcattgctg ggccctgaga agaaaaatgc 410

<210> 8464
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-027-Q1-E1-H9

<400> 8464

gggccgaccc acgcgtcagc ccacgcgtcc gagtatctct ctctcccgcg cgcgcggggtg 60
agccggggac cctcctacgt ctcgccaccc tgctggtata gcccgccggt cgtccacgcc 120
atggccaccc aatatgcgcg gctctccctg ccatgccgcc tgccctcgcc gtcctctccg 180
ccggtgccga cgacgacccg ccggtgccg cgcgccgcg cgcgggcggc gtccacctcc 240
ccgcggtgcc cacgcgtcgg gggcgcgggc gccacgcgcy cccgcggccc gtgccggcct 300
cggcctccg agggcggaagt gcagcagcag gacgcggaag cggaccaagt ggtggacagc 360
aacatgctgc cct 373

<210> 8465
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-028-Q1-E1-A10

<400> 8465

gggtcgacgc acgcgtccga ggacgagtgg ggtgatgcac accatataag ggtacactca 60
tgttgatat ctgctaactc gcaaaagaaa ctcaggtgcc cacacacagt gctaggtttg 120
ctattcttca cagttctaatt ttttagcatt taaccaaagc gcgtttgtct atccttaaaa 180

ggagtgtgtt ttccaatgct tgaacttttg, tagtaagggt gtgctacatc aaatccagcg 240
 tgttttaggat actgctacat acatgaagggt gagctttagg attgtttcct aaagcctcct 300
 agaatctgtc attaggaatt tttagagatg ctgacatact tagatttttc tccctttttg 360
 gggaaaatct tggttaaata agtaattgtt gcctgtgtag taaactaaaa tgggctgttt 420
 taacacactc aaaaaaaaaa cggggggaaag aa 452

<210> 8466
 <211> 281
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-028-Q1-E1-A6
 <400> 8466

ggtaccagtc aagaattgcc gggccgaccc acgcgtccaa tgattaagat aggagattat 60
 tgttgaggag agagatcgat tattattatt gctgctactg catatgttta gtgggtgtat 120
 aggttgggaa cacacattca tggaggatgg aaccacacac cgatcaattg gagggagaaa 180
 gagattgttc gggtaattaa ttgtaatata tatagagaga gacaattgac ccacatacat 240
 atataagcta ttagtgcaat gcttgctgtt gggtcaaaaa c 281

<210> 8467
 <211> 451
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-028-Q1-E1-A7
 <400> 8467

ggtcgcgcga cgcgtccgcg aggtggcaca caacgtgtgg gccgacacct tctacgccat 60
 ggcggagaac aacgtcatgt tgcagggcat cctggtgaag ccgtccatgg tgacgcccgg 120
 cgcggaggcc aaggacaggg ccaccccgga gcaggtggcc gcgtacaccc tcaagctcct 180
 ccaccgccgg atccccccct ccgtgcccg gatcatgttc ctctccggcg ggcagtcgga 240
 ggtggatgcg acgcagaacc tcaacgccat gaaccagggg cccaaccctg ggcacgtgtc 300
 cttctcctac gcgcggggcg tgcagaacac ctgcctcaag acctggggcg gccacccgga 360
 caaggtcaag gcggcgaggg acgcgtgct gctgcgcgcc aaggccaact ccctggcggc 420

agctcggcaa gtacacctcc gacggcgagg c

451

<210> 8468

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-028-Q1-E1-B11

<400> 8468

ggtcgacgca cgcgtccgag gattaagccg aaagatcaaa atgacgcatc aattgtcaca 60

aaaactaatt tcaagcatct gtattggacg ctgacacagc agctagcaca ccacaccatc 120

aacggatgca acatgaggcc gggggatata tttgcgactg gcacactgag tggacctgaa 180

cgggactccc tcgggtgtct gctggagctg acatggaacg ggcagaagga gataccggtg 240

gggaatttga cccgcaagtt cctagaagat ggagatgaag tcattcttgac aggatgttgc 300

aagggtgaag gctacaacat tggtttttga acctgcaccg ggaagggttct gccggcactt 360

ccctgagcca acacgtcttg gcatcagttc tccggagtct caacgatctc agctatcaga 420

gagttgtctc aacggtctca actatcaaa 449

<210> 8469

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-028-Q1-E1-B12

<400> 8469

ccggtcaaaa attagcgggt cgacgcacgc gtccgaccac gagtccgcgg acgcgtgggc 60

cgccagcctc cccgtcgccc gccgctcctc cagaagcctc ggcaacgtca gcaacggcgg 120

aaggatccgg tgcattgcagg tgtggccggc ctacggcaac aagaagtctg agacgctgtc 180

gtacctgccg ccgctgtcga cggacgacct gctgaagcag gtggactacc tgctgcgcaa 240

cggctggata cctgcctcg agttcagcaa ggtcggcttc gtgtaccgcg agaactccac 300

ctccccgtgc tactacgacg gccgctactg gaccatgtgg aagctgcccc tgttcggctg 360

caacgacgcc acccaagtgt acaaggagct gcaggaggcc atcaaatacct acccggacgc 420

cttc 424

3682

<210> 8470
 <211> 447
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-028-Q1-E1-B2

 <400> 8470

 acgcgtccga ccacacgtcc gccacgcgt ccgccacgc gtccgccac gcgtccgccc 60
 acgcgtccgc atcatgtttg atgtaacttc aaggcttact tacaagaatg ttcctacgtg 120
 gcatagggac ctgtgcaggg tctgtgaaaa catccccatt gtcctctgcg gtaataaggt 180
 tgatgtgaag aacaggcagg tcaaagccaa gcaggttact ttccacagga agaagaatct 240
 gcagtactat gaaatttctg ccaagagcaa ctacaacttt gagaaacctt tcctgtacct 300

 tgcaaggaag ctggctggtg attcgaacct tcactttggt gaagctgttg ctcttaagcc 360
 tccggaagtt accatcgaca tggctatgca gcagcagcat gaagctgagc ttgctgcagc 420
 agctgcaaaa cctcttcctg atgacga 447

<210> 8471
 <211> 140
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-028-Q1-E1-B4

 <400> 8471

 caaacctccg ccggcccctt ggaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaggcgg 60
 gcgacccaaa aggattaaac ttagctaccc gtgcaatgga actcaaaagg ctctcttaga 120
 gcggcaccca aaattcaatt 140

<210> 8472
 <211> 460
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-028-Q1-E1-B7

 <400> 8472

 cggtgcgacc cagcagctcc acgcgcgcg gcgcctggaa gggcaccagc ggaggccacg 60

ccgtgctcat cagcggatac agcgagggca aaggcaactt cgccatggtc agggacatga 120
 tacatacata catactgctg atcgagctct gctgccttgc atctatctat atacctaaca 180
 tgcataatgct gctgcttgga cgacgcgcgg cgtgcagatg cccgacgcc acgcgtcgg 240
 cgtcggggcc atgacgcaca gcttcgtccg gacgctggag tgccagccgc gcggggtcac 300
 ctacggccac ctgctcagct ccatgagggc catcatgaag aaccgcggcg ggggctgcga 360
 tctgcacggg gccatcggcg caccatccg caccgtcgc aacttcagcg gcgtgcacgt 420
 atccatgtcg aatctcctcg tctctgtcaa catcaacatc 460

<210> 8473
 <211> 450
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-028-Q1-E1-C1

<400> 8473

cgcgctccacg gacacgtggg cggacgcgtg ggcggacgcg tgggtgagag gatgactcgg 60
 gtgcaggagg ctactctgcc aataattctt caaggaaagg atgttcttgc aaaagcgaag 120
 acaggaacag ggaaaacagt tgcctttttg ggagcttgca aaccaattgg ctgctgaggc 180
 caggaagctt ctcaagtatc atcgctcact ggggtgtgcag gttgtaatag gtggcacacg 240
 gttacctcaa gagcaacgga gcatgcaagc taacccatgt cagattcttg ttgctactcc 300
 tggaaggcta aaggatcatc ttgagaacac gcctggattc tccacccgaa ttagagggtg 360
 caaggttctt gttctaaatg aggctgaccg cctgttggtat atgggattta gaagagacat 420
 tgagaaaata attactttca tccctaaaga 450

<210> 8474
 <211> 331
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB189-028-Q1-E1-C10

<400> 8474

ggtcgacgca cgcgctccgac cagcagtcgg cccacgcgtc cgcncacgcg tccgcncacg 60
 cgctccgcna cgcgctccgca agcgacggcg cttgcacaag atgaaccagc tctctctcct 120

ccaccaccta catcggtgt ctcccggacg cggccatggc ctcaccgccg cctcnccac 180
 cgtcgtccga gctgggtctt cctcctgtga accaccaacc ccgcagcagc acgcaaaacg 240
 cctccttgcc atagcgctc acgaaagcat cgcagcagct agggaggagg aaagccactt 300
 gcgtcaaaaa ctcgtgcag cgggcaataa t 331

<210> 8475
 <211> 453
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-028-Q1-E1-C11
 <400> 8475

ggtgceggtc aagaattagc gggtcgacgc acgcgtccga ggtggagtcc tcggacacca 60
 tcgacaatgt caaggccaag atccaggaca aggagggcat tccaccggac cagcagcggc 120
 tcatctttgc tggcaagcag ctggaggatg gccgtaccct tgcagattac aacatccaga 180
 aggagagcac cctccacttg gtgctgcgtc tcaggggtgg catgcagatc ttcgtgaaga 240
 ctcttactgg caagacgac acccttgagg tggagtctc agacaccatt gacaacgtca 300
 aggccaagat ccaggacaag gagggcattc caccggacca gcagcggctg atcttcgccg 360
 gcaagcagct ggaggatggc cgcaccttgg ctgactacaa catccagaag gagagcaccc 420
 tccacttggt gctccgcctc aagggtggca tgc 453

<210> 8476
 <211> 447
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-028-Q1-E1-C12
 <400> 8476

ggtgccggtc aagaattagc gggtcgacgc acgcgtccgg tgacgaggag gagctccaga 60
 aggagaacat caagaacgcc gcctcctcca ccggcaacat cacgttgagc gtcaccaaga 120
 gcaacccgga gaccggcgag gtcacggcg tcttcgagag cgtgcagccg tccgacaccg 180
 acctcggggc caaggcgccc aaggatgtca agatccaggg ggtctggtac gctcagctcg 240
 agtgattcga gtgtctaact gctaggtgtc cgaccgtcct catggatctt gggaaggtgt 300

acgtaccatg gaaaactttg gagagcagag gaggaatcgt gtacgtaatg tacttggttaa 360
 tgcaaattcg ggctgtcgct tttttatattt cagtttgggt ttcttctctt tcttggtggtc 420
 tcaagaacta catccccctgt gcaaaac 447

<210> 8477
 <211> 450
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-028-Q1-E1-C3
 <400> 8477

cgggtcgagc cacgcgtccg actggatgcc aagagtgggt gtgagttgga atcagcacaa 60
 gctaagaatc aggcactaag ggaagctggt gcagttgtgc ctacatcata tgaagctcta 120
 gagagtgcaa ttaaggaggt atttgacaaa ctggttgagg aaggaaaaat ttctcctgtg 180
 actgaaatta cacctcctcc cattccccgag gaccttaaaa ctgcaattaa gagtgggaag 240
 gtccgagctc ctaccacat catttccacc atctccgatg acagaggtga tgaaccgtgc 300
 tatgctggtg tgcttatgtc tacaattatt gaacaggggt atggagttgg tgatgttatc 360
 tctcttttgt ggttcaagcg cagccttcct cgctattgca ctcagtttat tgagatatgc 420
 atcatgcttt gtgcggacca tggtcctgt 450

<210> 8478
 <211> 477
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB189-028-Q1-E1-C6
 <400> 8478

aggtaccagt ctagaattcn cgggtcgacc cacgcatcca cccacgcgtc cggccacaga 60
 aaacatatct tgctgtagcg gcatggctgc acgcaactgc tggaaaaaaa tatatgacat 120
 cttgtgttat gctgctacgg tgcttctgca gcagcatgaa gtttttttctt ttcttggttaa 180
 aatagggtttt ggtgcaactca tgaattcatg aagtgtgatc gttttctatt gccgttgcca 240
 cccttgtttc ccaggcgaga tccatcttca gcttaggggt ctacagcttg gtggcagtg 300

cgtcggtggt tgcggtgatg aacgtatattt ggttctggaa gataactcaag gggatggtga 360
aaaccctttc taggaggaag cacagcgaaa atgggagAAC agattagaag gaatgaagga 420
aggatgctac tgaactgtac acatgttcat ctcaacgcac ttacggcact cgcattc 477

<210> 8479
<211> 407
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-028-Q1-E1-C9

<400> 8479

gggtcgacgc acgcgtccga ccacgcgtcc gactcttttt tccctcacc agtcgctttc 60
~~geggtcagcg cgagctgagc cageccagtgg gtcggtcgct ggaggcggag ccataaaggc 120~~
gtcagcgacg gcagcatgat gagcggcaga tcgggcggga gggacgccg nggcgagtgg 180
gaggttcggc ccggcgggat gctggtgcag cgcaaggacg gtgaggcggc cggccccgtc 240
atcaggatca gggctctcca cggcgccaac ttccgcgagg tcgtcgtgcc ggcgcaagct 300
accttcggtg agttgaagag gatccttggt cagactactg gcttggagcc tgagaggcan 360
aggctcttct tccgtgggaa ggagaagagt gacagagagt tcctgca 407

<210> 8480
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-028-Q1-E1-D10

<400> 8480

ccggtcaaga attagcgggt cgacgcacgc gtccgattgc aatgattcat acaccaagac 60
tttgaagaaa tttcatggat ggcttgccag ttctagtttt acggtggcaa tgaagcttgc 120
tctaataga gagaaattta tggaggatcat tagtggaacc ggtgacatca atgcagatat 180
tgagaaattt tgcacgacct tctctccttt cctcaaagaa aaccacaact ttctggcgag 240
cgtcggtctt gatgatctga aggcttcata gattaatctc catgctgatt acaacaaaaat 300
aagcatgtct tacgaaactc aaagtgttgc cgagggtata cctgtttccc gtagccatct 360
cccccttgaa aaact 375

<210> 8481
 <211> 154
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-028-Q1-E1-D12

 <400> 8481

 cgggtcaagaa ttcacgggtc gacgcacgcg tccgaccacg agtcagcaca cgcgtccgac 60
 gaagcatcac aaagctgtga tcaccgagtt cctctcaact ctcaaggact agagtccaac 120
 gggatctcga ccaaattggtt ttacactaac tcgg 154

<210> 8482
 <211> 464
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-028-Q1-E1-D2

 <400> 8482

 gggtcgagcc acgcgtccga ccaaactgcc gggccctacc ttcttttttg ctaacaccta 60
 tttgattaca attaactaaa aattcagcac caatccctca atggggacat ggcattgttg 120
 ttcaacagtc aggagacttg attcccaggc agatgcaggg ttcaattcac tgcttcggct 180
 ggagttgtca gttctacagc ttcaacatgg tttgtcaggt ctgccatggg gacgcaatga 240
 tcgtcaactg ctcgccatcc tttgctatgc tttgtttgtg gagctgctga gtggtggtgt 300
 ttggagaagt cttgaccctg aatatatagc tgaatcaaag agtaaggaa cttgtcgagt 360
 gggattattg gcaagggaca aggtcatgag gacatggatg cagtatgtgc atacatttga 420
 tttgagagcc ctttctctgc ttggattgag cacatcctat gcag 464

<210> 8483
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-028-Q1-E1-D3

 <400> 8483

 cgcgtccgac gggagaaccg aaaatcacgg gcgcgagaga tcggagcacg gcatgtcgga 60

ggagcagttc ctgcgctgg cgattgaagc cgccaagagc gccggcgaga ttattcgcaa 120
 gggattctac cagaccaaga acgtcgagca caagggccag gtggatttgg tgacggagac 180
 ggacaaggcc tgcgaggacc tcattcttaa ccacctccgg aagcacttcc cggaccacaa 240
 gttcatcggg gaggaggagt ccgcggcgct cggggccacc gctgacctca ccgacgaccc 300
 cacctggatc gtcgattccc tcgacgggac cactaatttc gtccatgggt tcccatttgt 360
 atgtgtctcc gttggcctca ccattgggaa aattcccact gtcggagtcg ttttcaaccc 420
 catcatgaac gagcttttc 439

<210> 8484

<211> 301

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-028-Q1-E1-D6

<400> 8484

aattccccggg tcgaccacg catccacgga caggctgggg acggtagcat cgacgtggag 60
 gtgtgcctcg cgccagacac catggcgcat ctctctctcg acaaggagtt cttgcagtac 120
 gtgtcctccc ctgcaccgtg aggcggtgac agagtgaatg tgtggcttgt tgctgcgcag 180
 ctacatatat taacgggatt tgtacccttt caccatttgg aaagcacttg atatcggcaa 240
 ttttaaccccc ttgtacacaa attgtcctac aactaactct aggatatata ggtgcatttg 300
 g 301

<210> 8485

<211> 270

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-028-Q1-E1-D9

<400> 8485

gggtcgacgc acgcgtccaa aagaaactct ttgatcaggg atacttggat gagcaatttt 60
 gtcagattga ggacttgag gatgaagcaa gccctaattt tacagaagaa gttgtttccc 120
 tgttcttcaa gaactcaacc aggctaata caaatattga gcaagctatg gacaggaatc 180
 ccagagatth cagtaaatgg gatgtaaaca tgcagcattt aaaaggaacc ggttcaacaa 240

ccggtgcttg caggatgaaa aacgattgca

270

<210> 8486

<211> 252

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-028-Q1-E1-E1

<400> 8486

gcgtccgaca caactcggca gccacaagaa accaccccct tccggcacac gggctcgacc 60

acctgactcc atcacogtgc ctgtctgtgt tctagggaca agaatagcac agatatacat 120

gagcgatcag aggtggggag aagaggatga gcaccataac ggcgtcttcg ctgaacccca 180

tcgcgcccgt cttcatcact gcggcgctacc tgcaggtggg agacttcacg cccgactggt 240

gggatctctt ca 252

<210> 8487

<211> 416

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB189-028-Q1-E1-E10

<400> 8487

ggtcaagaat taacgggtcg acgcacgcgt ccgaacccca acttcttctg agcggccggc 60

tgcgggcatg ttcttgagcc tgccgtgatt ctactccgtg tgtgttgagc catatatctg 120

atgtcaagg attggttaat ttgaacaagt ggtgcaactg cgcgtgtaca tggatttgct 180

cttcctctat gtctctgtcc tctgtctccg gttactttcc ctgtttcact atgccatgca 240

catagacatt gccatgttct gctgccagct cagggcttgt gaataacana aataaaaaaa 300

acaaaaaaaa aaaaaaacaa aaaaaaaaaa aaaaaaaaaa aaaaaanaaa aaaaaaaaaag 360

aaaaaataaa aaaaaaaaaa aaaaaaaaaa caaaaaaaaa gggggggccc cccaaa 416

<210> 8488

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-028-Q1-E1-E11

<400> 8488

ccggtcaaga attagcgggt cgacgcacgc gtccggaatt ttacaaaag aaaataactta 60
tgatggtgaa tccgtcaaag gccttgatgg gttcaacatc agaaaagatt acctctgcc 120
ggtaccaaac tttaggtttt aaatgataaa gctgagaccg ggtggttgac ttgcacgaga 180
aggaggtctc ggtgtagtgt ctccgtttga gtcgattaag gaccatgtcg atgtaggctt 240
gatgattgag gaccttttaa ctggtcacat gcctcatcat ggataagctt tgctcgggc 300
agactaatac cagaaagggc aacacacaat gggagtggag agatggcgag agtagcgtgt 360
accctccatg gtaagaggct ggacggtggt gtatctgtgc tctcggttg cgtgaacccg 420
gtc 423

<210> 8489

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-028-Q1-E1-E12

<400> 8489

ggtcaagaat tcacgggtcg acgcacgcgt ccgcggacgc gtgggaactg gttgagaaaa 60
ataactggtt acccgagggg cctattacca ttggtgttac ttcaggtgcc tcaactccag 120
ataaggttgt tgaggatgct cttcagaagg tatttgagat caagcgtcag gaaattttgc 180
aggttgcata aattttaagc agagatttg tgaagagctg aatagtttg gcttggcaaa 240
ggttactaga aacgttgcac aggcaaagt ttgtacagta gctaaggatg taacgagttg 300
ggcacgaata ctaccacgag tcactatcct tgtgctggaa ttacagtac ggtgaaacta 360
aaatggtgtt atcattgggc cgaataacat ttgcatcagc ctttctaact tctaagggtca 420
actttttgcc acttgatg 438

<210> 8490

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-028-Q1-E1-E2

<400> 8490

cacgcgtccg agcaagctgg gagtgggtgg ccagcgccaa cattaaaagg atggaaggac 60
cttccgatgg agctcctggg gcgataata tccacagttg gaaatgatag gatgggtcatc 120
gtggcttcgg gggtttgaaa aggtggcctt aacccctgg aatgggggtc aataaacctt 180
caattaaaag gtgcaaaactg agcatgaata atttaatgat aactcctgcc cacaagttca 240
ccaagttgca agttctcaat ctccggcaaa acaaacctca act 283

<210> 8491

<211> 427

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB189-028-Q1-E1-E3

<400> 8491

cggtcgccg ccacgcgtccg accaagcgtc cggcctcgtg tcacgctacc tcagtgggga 60
agcggagcag atcgagtggg gcaagatcca gaccctacg gatgaggtgg tgggtgcccta 120
cgataccgtc gcgtcgcttc ccgaagatct cgaggagacg aagaagctgc tggataagct 180
cgttgtgctc aagcttaacg gagggctcgg gacgaccatg ggctgcactg ggcccaagtc 240
tgtcattgaa gtccgcaatg ggttcacatt cttgacctt attgtgattc aaattgagtc 300
cctgaacaag aagtatggat gcaatgtcnc tttacttctg atgaactctt tcaacaccca 360
tgatgacaca cagaagattg ttgagaagta ttccaactcc aacatcgaaa ttcatacttt 420
caatcag 427

<210> 8492

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-028-Q1-E1-E9

<400> 8492

gggtcgacgc acgcgtccga ggcggaggcg cgcgaggacc cttcttcctc ttcctggctc 60
gcgctcggca gcatgtgctc catgcacggc cgctgatgag ggagccagcg gtggttatta 120
gtagtgcaga caagagctcg ggcgcccggc cggccatggg atgggatggg gaggcgttgc 180

agcagcaatt tatgtgctac ctacgtacta gtatttatta taattgttat tactaacaac 240
 aacgactggg agtatcgatc agagaccgac gctattcgat cggtgggtcg tttcattgtc 300
 cttccttgct agctgggtgg gtatcgacca tctaaatcta acaggacacg tggacctgga 360
 cggcaagaga tgtccagtcc agcagtgtgg aacgtttgtt gctttgtcta tcattaattg 420
 ctataagttt gtttcatata tacatatata ctactgt 457

<210> 8493
 <211> 363
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-028-Q1-E1-F10

<400> 8493
 cggtcaagaa ttaccgggtc gacgcacgcg tccaagatcc tccgctcacc gcccggtcgc 60
 tactcatggg caaggatcaa attcccagac tcaggggggtg gatcttagtg tgaacaacca 120
 tgactctcca ggggtgggtgc caacaagtaa ttccgaaaga gacgccatca agtaaacatt 180
 ggaagattgg aatgtacatt tcaactacat attctgttct ataggagctc ctggggggcag 240
 aaatgggggtt attcagtggg ctctctgtta tcactagtaa gcgtatttct ggcagagttg 300
 gagctaataa ctgcatctca attcggcttg tcgtgcccta gacggtattg ctgtccaatt 360
 gca 363

<210> 8494
 <211> 407
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB189-028-Q1-E1-F11
 <400> 8494

cggtcaagaa ttacacgggtc gacgcacgcg tccgatcaaa gggtttgatt gttgactctc 60
 gtaaagggtc ccttcagcca ttcaagaaac cttggggcga tgagcacgag cccttgaaaa 120
 ccttgatga tgctgttcag tccatcaaac ctacagttct gatcgggaca tctggagttg 180
 gaagaacatt caaaaagaa atcattgagg ccatgtcttc cttcaacgag aggccatca 240

tcttttctact gtcaaaccga acctcgatt ctgaatgcac tgctgaacaa gcatatacct 300
 ggagtcaggg ccgttcaatc tttgccagtg gcagtcatt tgccccctg gagtacgaag 360
 gaaagacttt tgtgcctgng cagtcgaaca atgcctacat tttccct 407

<210> 8495
 <211> 405
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-028-Q1-E1-F12
 <400> 8495

ggtcgaccga cgcgtccgag gacgagtg ggcagcgctg ggaagagcct ggaccaacaa 60
 ctcttgcttt agggattgat ttgacctcgt tggggttgaa tttgaactcc caagataatc 120

tttacaagac atttggtctt ccgtgggtcaa gcgagccagc tgtaggagaa cctgattatc 180
 agatcccagc ttgtttctct gcagagccac caccagcgct gcaaccattt cattttcaga 240
 agtttcaccc tttgacacta ttctacatct tttacagcat gcctaaagat gccgctcagt 300
 tatatgctgc taatgaacta tacaataaag ggtgggtttt acacaaagac taccgtgtct 360
 ggctaacaag agctcctaatt tccgcacctc ttgtgaaaac tccac 405

<210> 8496
 <211> 434
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB189-028-Q1-E1-F7
 <400> 8496

gacccacgca tccacagaag taccgcacag cccgctataa accagacctg tcagaaggta 60
 catcggaataa aaggacagcc actgaagagc tggctctgga cctgaaaacg agcatggatc 120
 ttactgaagc gctgcgcctt cagatggaag tccagaaaac gcttcatgaa cagcttgaga 180
 ttcagagaaa attgcagttg cggattgaag agcaaggaaa gtatctgcag atgatgtttg 240
 aaaagcagag tcaatcgagc acggagaaaag tccaggatcc atcctcaagg gatacaacag 300
 ctaaaccgtc atctaatacag agccagtcta caaacaagga tantggtgca accatggacc 360
 caaatggaac aggagacatc gcacggacgg cagaactggg aaaacgttcg tctgaactag 420

gtgtaaaaca gaaa

434

<210> 8497

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-028-Q1-E1-F8

<400> 8497

gacccacgca tccgcccacg cgtccgccc cgcgtccgcg gacgcgtagg cgctgggtag 60

ctccggcgcc ggatcgagcg tcgtcggtcc tcgaaacttc aggctattag aggagctcga 120

gcgtggagag aagggcattg gtgatgggac agtgagctat ggaatggatg atgctgatga 180

catctacatg cggatcatga ctggtaccat cattggccct cacaatactg tacatgaggg 240

tcgcatctac cagctgaagt tgttttgtga caaggactat ccggagaagc cacatctgtc 300

agattccact caagaaatca acatgacat 329

<210> 8498

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-028-Q1-E1-F9

<400> 8498

cgcacgcgtc cgagttcaac cgtagcccag aaccctggcc tgctgcctcc ttccacagct 60

gcaaccgtta ctgacagcac caagatcgca gcagtgccag ccgcaccaat tgctgtggcc 120

aacgcccaga agagtgcagc agatataccg caggctccca aggcattctt tcgcagggttc 180

cttgagaaga gaaaggatcg ccttactgcg aaagcacctg acccgggttc cccttcagat 240

gttacacctg tgaagaagga gatgtcggat ggtagccat ggcttgggct gggacctcag 300

atcgccaatc ctgatctgag cttgtccaag gaggcgagcc agtgatcgat gatccagcat 360

caccatcttc aaaactgcga tactcaacag ccatg 395

<210> 8499

<211> 424

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-028-Q1-E1-G1

<400> 8499

cgggtcgagc cacgcgtccg atcgcacact gggagtggag agatggcggg agtagcatgt 60
accctcctgg catagtagca cgcttggttag ggtaatgtgc tctcgggtgg cgcggacctg 120
ttcatgtagt ggaggactcc gtgggaacgg ttgacatatg caagggttaa gtgctacata 180
tgtcgtgtgg ttagagatcc cagctgggta taatcggttc gaatcgtcgt tgctcctcgg 240
ttatggagac tcatccctgt gaccatcatc gtagttagca agtgaaatat gagaatgaat 300
aaaatggagc tagtataggc caagtgcctt aactagatca ggcanatata gattcaggta 360
ataacctaac tagtgaaata aaatttggct taaggatcaa ctggtancaa gcttttctgc 420

aaaa 424

<210> 8500
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-028-Q1-E1-G10

<400> 8500

gtcgacgacg cgtccgacga tttataagaa taacattcta gatctagaag aaagtatagg 60
ttcataattg ataataaat atcgatgaaa gtaaaaaaaaa caacatctat gaaatatata 120
taaataaaac gaaataaaat atgcataatt aataatataa cataaattaa aattattaat 180
aaaatatata aaaaagcata aaaagcccga taataggtaa aaaataaaaa agaaaatcac 240
atggatatta ttttgataat ctaaaatata tcatggaata tctcatgggt actttataaa 300
cactcaaagc taatcgtgaa acatcatata catactatgt gagtcgtgag tcctcttaaa 360
gtataacgta aaacatcaaa cacacatggt aaacatcaaa cacacatata taagccgacg 420
ttatttgtca cct 433

<210> 8501
<211> 216
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-028-Q1-E1-G11

<400> 8501

ccgggtcgac ccacacgtcc aaaacagtac aacctgtgca tattgttgat gttccccggtc 60
atgctatgct caagcccaag cttgctgaac tcctgcctaa agctgctggg gttgtcctta 120
atgttggagc tcaagatttc ttgtccaaca tgcaagctgc cggaaaatac cttttataca 180
ttctcacaaa agcatctgtc actaacataa ggatcc 216

<210> 8502

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-028-Q1-E1-G12

<400> 8502

attcacgggt cgacgcacgc gtccgaccac gcgtccgagg aggaggtggt ggtggtggat 60
atgggggatc atcaggatac ggtggtgcct atggtggcgg tggcagcggc ggcggcggct 120
atggtggtgg tcagagtacg agttcttggg actgaactga actctgatta gaagtgaata 180
atgggcccaac cttttgggag tgaaaaatgg gtcaaccgtt atcgattagt ccctgttga 240
tggagcgaat gcttgaaatt tgttgcttga catagatta atcttgcgtt gtgttgctgt 300
aagggtattg cttatgttat tatctggatt ggtgtttttt ctacgcctca agcttgctgt 360
gtcccccttc acaaaaa 377

<210> 8503

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB189-028-Q1-E1-G2

<400> 8503

gggtcgaggc acgcgtccga ggaaacataa ggcattggct gcacatgtca ttttttcccg 60
agggtaacaa atgtggcccc cagttttacc ctgaagcacc ggaaactgag tgatgcttgt 120
ggccattgta cgccacctga tgcttgctcg atccttcaga ctgaagccca cacttgacat 180
agtgatgctt gctacacttt tgttgctgat atgcttcttc tgccaacaac ataagcaatt 240

ctttcttctc cgattatctg cggacccgat ttctatgcgc tcgaaccatt gaactgagtg 300
 gggactgtgg agccattttg tgatgaacag ttctaataac cagtataaaa gtacgttgta 360
 acatatgcc a gattaccata gcgatcgaaa tctcctanga gatgacagtt tttg 414

<210> 8504
 <211> 447
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB189-028-Q1-E1-G6

 <400> 8504

acaagaagaa tgtgattgtg gccattacct ctgataaggg actctgtggt ggtattaatt 60

caacatcagt gaaagtttagc agggcccttc acaaattgac atctggtcca gaaaaagaaa 120
 ccaagtatgt tatattagga gaaaaggga aagttcagct gttgcgtgac tcaaaggaca 180
 gcattgaaat gactgcaact gaactgcaga agaaccctat caactacaca cagggtgccg 240
 tgctcgcgga tgacatatcg aaaaatgtgg aatatgatgc tctgaggggt attttcaaca 300
 agttccaatc tgtcatatcg ttttaagcca caatggtaac aatactttcc cccgaggttg 360
 cagaaaaaga atcagaagct ggtgggaaga tgggtgacct agaattctat gagattgaag 420
 gcggcgagac anaatcagag attttgc 447

<210> 8505
 <211> 420
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-028-Q1-E1-G8

 <400> 8505

cgggtcgacc cactgacgtc gccacgcgt ccgcttcggg cccaactcca ccaccttcat 60
 cgtgccggcg gagatcttcc cagcaaggct gcgggtccacc tgccacgga tttcttcagc 120
 tgcaggaaag tgtggcgcca ttgtcgggtc atttgggttc ctgtacgcy cgcagagcac 180
 ggatcccacc aagacggact ccgggtaccc gccgggcac ggagtgcgca actcgtctgt 240
 catgctcacc ggatgcaatg ttatcggttt cctgttcacg ttcttggtgc cggagtccaa 300

gggaaaatcg ctggaagagc tctccggcga gaacgacgag gaggcagcac cgcagcaaca 360
gcagaccgtg cgcacagatt tgagtgaata aaacagagaa acagtacact cctactacta 420

<210> 8506
<211> 342
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-028-Q1-E1-H11

<400> 8506

ggtcgacgca cgcgtccaag gacgagtggg cggacgcgtg ggcggacgcg tggggcaccc 60
cactgctcca gccctttcta ccgccactc cacctccttc ccttaacccc tcacacagt 120
atagacttac tgttacaagg gatatagtca aagacgctct acagagactt gttcagagcg 180
acgagttcgt tgatctggtg tgccgggaat tgcagagatc acttgtatac gctgcttgct 240
tagtcctgtc gggagttttc tggtcgtgg caagaatgtg cctgtaattt tcctttgact 300
tttttgcattg cttcncttcc cgtactattg tataggtttg tg 342

<210> 8507
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-028-Q1-E1-H3

<400> 8507

cgggtcggcc cacgcgtccg aggaagcgtg ggcaaaacta ttttggttga acagaagatt 60
gactacagca tcatgggagg attagtgatt gaattcgggc agaagggtgct tgatatctca 120
atcaggaaca gggcgaagca aatggaggcg ttcttgaggc aaccacttga cttctaacag 180
ccttttggat aaaagaagca tcatcggaat gcagaggctg tcctgttgaa ggttttcttg 240
tgtctgcaat tttaatctgg ccttttgaat aaaatgtttc ctctaacaag tgaagggcac 300
tgtttttatt gtctcgtggg ccacagatgc ctgctgaaca atttatgttc atttcttctt 360
ttcttaaaga agcatgcact aagaacatga aggatgcatg ccatgg 406

<210> 8508
<211> 359

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-028-Q1-E1-H8

<400> 8508

ggtcgaccca cgagtccacc cacgcgtccg ccggaagga gtcctgcag gccacgcgcg 60
 agggcgcccg gtcaggctg cagttcgcca acgctgccg agcagccgca ggtggtgtgg 120
 gtgtcgtcga caaggcggtg cacggaggtg acgacgatgg cgacccccgt ggcaagaacg 180
 catgcatata cgacgacgac cacgatgacg agcgctaggt gatcgtcggg gttcgttgat 240
 gtacttttga tactttaaca acattcaata atggccctaa aaaaagggt tcccgaatg 300
 cggccaccgg ctaaaaaaaaa aaaaaggggg ggcccccaa agggttcaag ctttaatttc 359

<210> 8509
 <211> 199
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-028-Q1-E1-H9

<400> 8509

tgttattttt tatgttcttt ttattgtttt tttttttttt tttatttgtt attttttttt 60
 ttgaaaaagg tatatcccaa tccatccatg tgtaaagccc atggattact attttccacg 120
 gggccgatta gcggtcggtt gaatattgcc aacggtggct gtccctgtca tcaagagtgt 180
 ttaaaaggag gatttttct 199

<210> 8510
 <211> 352
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-029-Q1-E1-A1

<400> 8510

agttatatat atgagttgta tgcagtcacc gaactggtac aggcttccgc tttccatttc 60
 ctgttgggag tcgtgtagtg taatectggg gtgtgtatgt gtttcatcaa tcatgccagc 120
 cgatttgaat ctcgtttcac cagcatgatc tgatttgggt atacaagtat aaaccgcaac 180
 gagcgatctt gtaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaacaaaaa 240

aaaaaaaaa aataaaaaaa aaagaaagaa acaagaacaa aggaaaaaaa aaaaaaaaag 300
 ggggggccc ccaaaagggtt ccaagcttac ttacgcgtga atgcaacttc aa 352

<210> 8511
 <211> 443
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-029-Q1-E1-A11
 <400> 8511

ccggggccgac ccacgcgtcc aagacagtat ggacatgtgt ggacatggtc actggttaag 60
 tagcaatggg aagatcgtcc acatcaatcg ggtaactggt gaagcacaag cacgtagtga 120
 aggtgtagcg gaagtaatct tcaaagggtc aaattttaag ctgcaaacaa ctatcactgt 180
 tctcaagggtg aaccagatag ttgttgatgc tcctgcggag aactgacta atgcagctgg 240
 cctgccggat ggatacatgt tttctgtgag atttagtgat tcaattgagc acagtattgg 300
 atcctctgcg agcccaatta atgtcccctt tgaatgcaag gttgaccctt cttttgttgg 360
 gtttgttgag ccatggactg agcatgccac aaagaaatcc tactgcctgt ttcattcata 420
 ttcacctgca caactgttgc ccg 443

<210> 8512
 <211> 454
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-029-Q1-E1-A2
 <400> 8512

gggtcgacgc acgcgtccga ccacgacgtc cggttttttg aatattatat caacaaatat 60
 tattaacatg ggcacctact gctacaaaaa actgtatagt tcttttccac cagctatttc 120
 acgtttcttg ctattaagtg cttacagaaa atactgtggt tttcttacct ccatacatgg 180
 taaggatcatg ttaactctaa atacctaaat tttttaattt atacatttcg aattaatctt 240
 tgttgattatt tataatacgg aatttagtta gaatagaaat ttcttaatga agtacatcta 300
 gcacgaatth gtttctacat ttctactaaa gcaggaaatg gcactactct acttcgcagc 360
 ctaagacctc aagatatggt ggcaaccatc aaagtacatg tttcaagaaa atgagaattc 420

tagggaaata cagacaccaa acccatatta caca

454

<210> 8513
<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-029-Q1-E1-A6

<400> 8513

ggtacaggtc tagaattccc gggccgaccc acgcgtccac ggacgcgtgg gcggacgcgt 60
gggcagctct tcaacctat aggcaccaac aagcaatcgc agcaagcaac atacctttat 120
caccttggtt tcaacaatcg ccagccctat ctttgggtgca gtcattggta caaaccatca 180

gggcacagca gctgcagcaa ctctgtctac ctgtgatcaa ccaagtagct ctggcaaacc 240
tttctcccta ctctcagcaa caacaatttc ttccattcaa ccaactgtct acattgaacc 300
gtgctgctta tttgcagcaa caactattac cattcagcca gctagctact gcctactctc 360
agcaacaaca atttcttcca tttaaccaat tggccgcact gaaccccgct gcttatttgc 420
agcagcanat actac 435

<210> 8514
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-029-Q1-E1-B10

<400> 8514

ggtaaaggtc tagaattccc gggccgaccc acgcgtccac ccacgcgtcc gcccacgcgt 60
ccgcaccaag ggccgaactc aaccaaccat cggccccatt tgaagcccca tgaatgaagg 120
aatgaagga aaaaaagaaa gaaacgcagt tgtttctcag agtagttgaa tgtctggagg 180
gaggctgcaa tatagctgtc tgctaactaa gggcttcgtt ctccaagaga aataggcaga 240
cgctgtctaa tcaatcatgg gcatgtacat atgtgcatca ttttatacag aaattttata 300
tgtatctaata caatgctggg ttgcgggtcat ctggtccttt ttggcgcata acttgtctac 360
cttatcccaa tttagggctg atttggttaac aatagaatta gatgggatac atgagaggaa 420

atccattact atttaaaatt aaataacaag ggatttttc

458

<210> 8515

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-029-Q1-E1-B11

<400> 8515

gtcaggaatt cccgggcccga cccacgcgtc caccgccg cgcgcgcccc ccgtcgcccc 60

ggctcccgcg cgcacgcgtc tggccctccc cgtctcgtct cccccgtcc gctgcccag 120

gtctattgtc cttccagaa acctggctgc cagaaggag ccgaggggag gaccatctac 180

tgcaaagccc acggtggcgg caggcgggtgc cagtacctgg gatgcacgaa gagcgccgaa 240

ggtcgcaccg accactgcat agcccacggc ggcgggcggc gctgcagcca ggacggctgc 300

tcgcgcgccg cgcgcgggag gtccggcctg tgcacaaagc acggcggcgg caagcgggtgc 360

cagagggaga gctgcaggag gagcgcggag gggcactcgg gcctctgcat ctgcacggc 420

ggcggaagc ggtgccca 437

<210> 8516

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-029-Q1-E1-B2

<400> 8516

gggtcgacgc acgcgtccgc ggacacgtgg gagcggatct gaggcgacga tagatggagg 60

cggcgggatc tctcgggtctg cagtcctgct ccacctcgat ggatgatgtc tctgcgctga 120

taattattgg atcaatttcg ataattatta gtagatctat gagatatgcc gcctggaaga 180

ggcgaggtaa gctgcagcat gtaaaaaaga gaaaaaagat gtgacaacct aaaagaagga 240

ggctttgccca tgatgggtgc gctcgcgtgg caggccaggc aataataaaa agatgattat 300

tgcgtgccgg gggaggagat cgcacggggg ttgatgtttt tggccccggg ttctcctccc 360

tcatcttggt ccgtgttcct gtatgcgttg ctccgc 397

<210> 8517

<211> 420
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB189-029-Q1-E1-B4

 <400> 8517

```

gggtcgacgc acgcgtccga gcagcacact cagctatcca gcaaaagaga tcgagacgca   60
ggagtcacgg ccaccgtcag cgccgccgtg gtgaccacca tcgttgcccg cgccgcgacg   120
gccaggccca atgctctagg gctgacctgc ttgagggcga ggagcgagag ggtgcggtgc   180
agctacgcca aggatgccaa gaacgcgggc ccagtcagca ccaagggcgc aggcgcgtcg   240
ctgctcgccg cagcggggcg ggtgaccgag tcggcggggc ccgcgctggc gctcgtggac   300
gagcgcatgt ccacggaggg caccgggctg agcctcgggc tcagcaacaa cctgctgggg   360
tggatcctcc tgnnggtctt cggcctcctc tggtcctctt acaacatcta cacctctgac   420
  
```

<210> 8518
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-029-Q1-E1-B5

 <400> 8518

```

cgggtcgacc cacacgtcca atttgtttat actgttattt tttttggttg gaggatatct   60
catgtgcatg aaactgatat aggctagtaa tttactatta tttgtagtgt ctgattttat   120
tcttttgtgc caggagctta gattgctgat aattgtcagt agcttttcta gtattaatta   180
ctgaaagaat tggttaaagt gcttgacaaa gcactttatt ctgagtttgg taaacaactt   240
attttctagg cactacacgt tatgacttat tagaatcgga tttaaagag aattctcact   300
attactaatt gggttggtgta tttagataa ggcgggtgtc agacattgat ctatttgata   360
gggttctagg ggctgtgtgc aaatactcaa cggcttaacc tagttttaag aggaaatatt   420
gaaagtgtag                                     430
  
```

<210> 8519
 <211> 398
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-029-Q1-E1-B7

<400> 8519

aattccccggg ccgacccacg acgtccgagt cctgcagccc cgcaatagag catcgtactt 60
catcgtttcca cttacatcgt ttgttcgttc gttcttccgc gtgatctgct tgggagttgg 120
gggcaatgga ggcctacgtc ctgttcgcgc gcgccaagga gcaggaggag gacatcggct 180
gcccgtccga gtcgtccgcg gcgcgttcca cgtcctcgtc gtcggacggg gtggacctcg 240
ccgacgacgc cagctcgtcc ggggtccacct gccacttcga gatggcctcc ctcatgacgc 300
acctcccgat caagaggggc ctgtccaagt tcttcgccgg caagtcgcag tcgttcgcgt 360
cgctggcggc cgtgggcggc atcgatgacc tgcccaag 398

<210> 8520

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-029-Q1-E1-B8

<400> 8520

acccacgagt ccaatcctgc agccccgcaa tagagcatcg tacttcatcg ttccacttac 60
atcgtttggt cgttcgttct tccgcgtgat ctgcttggga gttgggggca atggaggcct 120
acgtcctggt cgcgcgcgcc aaggagcagg aggaggacat cggctgcccg tccgagtcgt 180
ccgcggcgcg ttccacgtcc tcgtcgtcgg acgggggtga cctcgccgac gacgccagct 240
cgtcgggggt cacctgccac ttcgagatgg cctccctcat gaatcacc 288

<210> 8521

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-029-Q1-E1-C11

<400> 8521

ccccgggtcga ccacgacgt ccgaccacgc gtccgcccac gcgtccgccc acgcgtccgc 60
tagtgttgga gagaagagaa tacactacac tacgcatggc aaaccagcac cagggccagg 120
gcatggcggc attggccctg gtgctgctgg tgctggcggc ggcggcggcc aaaacggctt 180

cggcggtttc ttgcaacccc gggcacctgg cggcttcccc cccggcatta atggccggcc 240
 cagacccttc cgcttcttgc ggctccaacc tcaaggccca acaggggtgc ttctgccatt 300
 tcgtgaaaaa cccacctac gggcgctaca tcaacagccc caacgcgcgc aaggctcgtcg 360
 cctcctgcgg cgtctccgtg ccgcgctgct agtactagta cgtgtgctgt gcatgcatgc 420
 a 421

<210> 8522
 <211> 478
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB189-029-Q1-E1-C12

<400> 8522
 ggtaatcggc cagaattccc gggccgaccc acgcgtccag catcgcaatc ggcaacacgc 60
 cgggcgttct gacggagacg acggctgagc tcgccgcctc cctctcgtcg gcggcagcca 120
 ggaggatcgt cgaggctgac cagttcatga gggctggcct ctatgacgga tggctccac 180
 acctgttcgt tggcaacctg ctcaagggcc aaactgttgg agtcattgga gctggtcgca 240
 ttggctccgc ctatgcacgc atgatgattg agggtttcaa gatgaacctc atctactacg 300
 acctgtatca ggccacacgt cttgagaatt tcgtcacagc atatgggcag ttctctaaag 360
 caaacggtga ggagcctgtc acctgnaaga gggccgccac catggaggat gtctctcagg 420
 aagctgacgt gataagtctg catccggtgc tggacaagac acctaccatc tgataaac 478

<210> 8523
 <211> 357
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB189-029-Q1-E1-C4

<400> 8523
 gggctcgacgc acgcgtccga tcaacgggtc aatccgtgtg acggtgcagg gcgaggatcat 60
 cgagttctgc ttccggggagg agcacctgtg cttccagact ctgcagcgct tcacggccgc 120
 cacgctggag cacggcatgc acccgccggt ctctccaaac cccgagtggc gcaagctcat 180

ggacgagatg gccgtcgtgg gcacggagga gtaccgctcg gtcgtcgtca aggagccgcg 240
 ctctcgtcgag tactttcagat cggctacacc gggagaacga tttccggaag gatgaacatc 300
 ngcagccggc caagcaaaga ggaggcccgg cggcggcatc acgaccctgc gcgccat 357

<210> 8524
 <211> 423
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-029-Q1-E1-C7
 <400> 8524

aattccccgg cgcacccacg cgtccacca cgcgtccgcc cacgcgtccg cccacgcgtc 60
 cgccccacgc tccgtcgcgc tccagctccc ctccatcctc ggccaaaaat tctgcggcga 120
 gctccgatcc ggtgcgacta ctaaccacg ccgcagaagc cgcgcgtcct gatcgcgcgg 180
 gggtcgagga gaggggaagc gcggcgccgc ggttgccctgc caccgcaccg ccgcaggaga 240
 aggaagagga gcccgatatc ctccgccccg ctgcccgcgc gaccgatgga ctccgagcac 300
 tggatctcgc gcctggccgc cgcgaagcgc ttctacgcgg cgcagctcgg ccacagcgat 360
 cgggcccggga tggatgagct ggagatggac gaggaggtca ggcccagatt cccctgcccc 420
 tac 423

<210> 8525
 <211> 341
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-029-Q1-E1-C8
 <400> 8525

ccaggtacag gtccagaatt cccgggccga cccacgcgtc caatggcttc ctccatctcc 60
 gccgccgcta aggccctccgc ggccttcgcc cacaagaagg agctggccgc gccggcgccg 120
 caccgcgcgg gtcgagccg ccggaccaag ccgtgccgcg tgcgcgccgt cgcgtcgccc 180
 gcgcgcaccc cccgcgcccc gtcgtccacc ggctcgggtga agaccgcgat gacgatgacg 240
 gagaagatcc tggcgagggc gtcggagcgc gcggcgctgg agcccgggga gaacgtgtgg 300
 gtggacatcg acgtgctcat gacgcacgac gtctgcgggc c 341

<210> 8526
 <211> 457
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-029-Q1-E1-C9

<400> 8526

ttccccgggtc gacccacacg tccacccacg cgctccgcca cgcgtccgcg gacgcgtggg 60
 tgcaaaagca ctgaatctca gggtaaggaa gaaggacaat ggtgttgtca agattcaggg 120
 gaggaagggtg gggaggaagg gtgtcctgga gttcgacact gaaatatttg agatcacggc 180
 atcctaccac ctcacgaga tgaaacaaac gggcgggtgat tcacttgagt acaagaaact 240
 gttggaagag gacatccggc cagcactgaa ggacatagtc tgggcctggc atggagatga 300
 ccagcaacaa aagtagtagc tttggatctc tcttttttgt tccataaaat tgtagatct 360
 ttcacttcag attgattttg ttcgacatgt gcgtgttctt cttactagtt acattctttc 420
 tgtttctgtg gaccattgga ctgtattctg tcgtgca 457

<210> 8527
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-029-Q1-E1-D2

<400> 8527

gcgtccgac ctttttctcc actccgcttt tgcttggttc catcgggccg gagaggagaa 60
 gctagctaac tagcagcagc tctgttggtg tgtgtgtgtg tggagggtag ctgcagctgg 120
 ggctagctgg aaaggctggg agccatgggg aggggccggg tggagctgaa gcggatcgag 180
 aacaagatca accgccaggt caccttcgcc aagcgccgca acggcctgct caagaaggcg 240
 tacgagctct ccgtgctctg cgacgcgaa gtcgcgtca tcgtcttctc caaccgcggc 300
 aagctatacg agttctgtaa cggaccgagc atcacgagaa cacttgagag gtaaaaaaaaa 360
 aacagttatg caggcccaga tactgctgta cagaacaaag ag 402

<210> 8528
 <211> 439

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-029-Q1-E1-D5

 <400> 8528

 gacccacgag tccacccacg cgtccgcca cgcgtccgcc cacgcgtccg gtcttcggac 60
 gctgcctccg cgccacacag aaaggaaaaa gtatctctct ctcccgcgcg cgcggtgag 120
 ccggggaccc tctacgtct cgccacctg ctggtatagc ccgccggtcg tccacgccat 180
 ggccacccaa tatgcgcggc tctccctgcc atgcgcctg cctcgcgcg tccctccgcc 240
 ggtgccgacg acgacccgcc ggctgccgcg cgccgcggcg gcggcggcgt ccacctcccc 300
 gcggtgcca cgcgtcgggg gcgcggcggc cacgcgcgcc cgcggcccggt gccggcctcg 360
 cgctccgag ggcgaagtgc atcagcaaga ggcgaagcg gaacaggttg tggacagcaa 420
 catgctgccc tactgcagc 439

<210> 8529
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-029-Q1-E1-D7

 <400> 8529

 aattcccggg ccgacccacg cgtccaggag gcgctgacaa tgtaaatacag tgttttcttg 60
 aagcagcgcg ctttggaagt actgaacttg tacgcattct gctgaaggtc gcatatcaga 120
 atagcttggc tgtggacacc gatctggctc tgggtgatgc ctcacattac tgcaagttca 180
 aaacaatgga atgcctagtt gatgaaggga acgtgagttc tttccttggc cctctgataa 240
 aagctgcaga gcgtgggtgc ttgcaggttg tccactgggt cgtcagtcga gggtctctg 300
 acattgagat gtgccttgcc ctgacgactg ctgcctccag cggccatttc gtagtggcgt 360
 cgtacatgct tgcacatatc cctcagcaaa tccttgaagc tctcagcaca cagattctca 420
 a 421

<210> 8530
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-029-Q1-E1-D9

<400> 8530

tccgggtcga cccacgacgt ccgaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaagaaaag ggcggaagca ctataggttc taagtttacg tacacgcgaa ggcgcgcctc 120
ccaacacgtc tgaaacctaa attcaacttc caggcaatgt ctttctctt ccatcgtggc 180
gactgagttc actcttccgg cgcgtgtttt aaacgctttg aaccggaaaa cccttgcggt 240
agccgacggt atcccccttg cgccaaatcc ctttccctc acctgcagtt acgcagcctg 300
ggcccgacc ggtacccctc ccgaacattt gcacaaccg aatggggagt ggaacctacc 360
ctgaacctga ccattacag tgccagatcc cgagctcccg cccatttcgc ccgct 415

<210> 8531

<211> 445

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB189-029-Q1-E1-E10

<400> 8531

cccgggtcga cccacacgtc cagaacacgc cgctgtctcg accccttgtc ctctctcttc 60
agcaagatgg cggagattga gataaaaaca gcacctgctg acttccgctt ccctacaaca 120
aaccaaaaca ggcattgttt tactcgctat gtcgagtacc acaggtgttt gaatgccaaa 180
ggggatgatg ctggtgtttg cgaaaaattt gccaaagtact acaggtccct ttgccctgga 240
gaatgggttg agaaatggaa cgagcagagg gagcatggga cgtttccagg acctctctga 300
atgtaccgcc cgagacctcc agttggacca gtcaacaagt tggccaggca gtctactgt 360
tccattctgc attctactt ccagaatcgt aaatgccttt tgcnccttgc tcttcaacca 420
agtcacacaa aactgttagt gatgc 445

<210> 8532

<211> 208

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-029-Q1-E1-E2

<400> 8532

gggtcgacgc acgcgtccga gtttcgcgcg tggacgccac cgtcctccat cccatcatcg 60
ccgcggggcca tatcccgggtt atcgccaccg ttgccgccga cgagactggg caagcctata 120
acatcaatgc tgatacggcg gctggcgaga ttgccgctgc cgtgggggcc gagaagctgc 180
tgttgctcac agatgtgtct ggcatttt 208

<210> 8533

<211> 376

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB189-029-Q1-E1-E6

<400> 8533

ttccgggtcg acccaccgacg tccagcatca gcggcaggag ctctgggcag cgtgcgcacg 60
tggggtacct agctcgctct gctagcctac catggctgat caccaccggg gcgcgacggg 120
aggtggcggg ggctacggcg acctccagcg cggggggcggc atgcacggcg aggcgcagca 180
gcagcagaag cagggcgcca tgatgacggc gctcaaggcc gcgacggccg cgaccttcgg 240
cgggtcgatg ctggtgctgt ccgggctgat cctggccggc accgtgatcg cgctcacggt 300
ggccaccccc gtgctggtga tcttcagccc ggtgctggtt ccggccgcca tencgctggc 360
gcccattggcg gccggg 376

<210> 8534

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-029-Q1-E1-E8

<400> 8534

ggtacaggtc cagaatgccc gggccgaccc acacgtccag agaaggttgt ggtgtctgac 60
cgtgtcgtgg actcaccgtg ctgccttgtc actggtgagt atggctggac agccaacatg 120
gagaggatca tgaaggcgca ggccctgagg gactctagca tgtcggggta catgtcgagc 180
aaaaagacta tggaaatcaa cccggagaac ccaatcatgg atgagctccg taagcgcgcc 240
gaggctgaca ggaatgacaa gtcagtcaag gatcttgtga tgttgctgtt cgagacagct 300

ctcctgacct ccggttcag cctggatgac cccaacacct ttggcaccgc gattcatcgc 360
atgctcaagc tccgtctgag catcgatgag gacgagtctg ctgaggccga agctgagatg 420
cctccgctgg aagatgacgc cggc 444

<210> 8535
<211> 455
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-029-Q1-E1-E9
<400> 8535

cccggtcga cccacacgtc caccacgcg tccggtgaga gagaggggaa gggatcgaga 60
gcgcggcgga ggcgatggcg agcggaggga agggactcaa cgcgactggg gaggcttcc 120
ggcggaggga cgagtggagg aggcacccta tggcggggaa ccagctgcg caccgacac 180
ccgggctcgg catcgccatc gtcgccttcg ggatctacct cgtcggcgag gccgcctaca 240
accgcctcta ccgccccctc ggcgacaacc accactagat cgcgggcagg atccgtgact 300
cgggtcaagaa gctggagcca actttaccaa gcactggtgc tgttgatgtt ttacagttt 360
tgagtcata aggtcagcca tgaccatatt gtaatctgtg accaggtaga cttgccact 420
ggtcctcca actattgtct tggggacctg tgta 455

<210> 8536
<211> 449
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-029-Q1-E1-F8
<400> 8536

ttccccgggc gaccacagag tccacacagc aatccacaca agcacttcga cgtcacacgg 60
gcgctgcgca cagacacacc aagcgtcggc accaatggct tactaccagg aggtggacta 120
ctgctcggag gaggtgaggt cgggtggccc ggccggcttc ggccgccacg gcggcggcgt 180
ccagcagcac gtcgtcaagg agaagttcga ggaggtcgac acggtctcac gcgccggcgc 240
caaccaccac caccaccatg gtcaccacgg cggccacggc ttcgtggtgc gcgagaccag 300
ggtcgaagag gacatcaaca cctgcaccgg cgaggtccac gagcgcaggg agagcttcct 360

cgccagggct aactgagccg cccggcgggc ggcattccacg cccgttcgtg cttgcctgcg 420
tgccttatgt atgtctgtgg ttgactggt 449

<210> 8537
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-029-Q1-E1-F9

<400> 8537

cccgggccga cccacgcgtc cacgtccatg ctctccgcta ccaccgtgcc actccagcag 60
ggggcgggc tgtccgagtt ctccgggctc aggagctccg cgtcgtgcc catgcgccgg 120
aatgccacct cgcagcactt catgtccgcc gtctccttca ggaccacgc ggtcggcacg 180
agcggcgggt cgcggcgggc gccgacggag gcgaagctga aggtggccat caacgggttc 240
ggccgcatcg ggcgcaactt cctgcggtgc tggcacgggc gcggcgacgc ctgccccctc 300
gacgtcatcg ccatcaacga caccggcggt gtcaagcagg cgtcccacct gctcaagtac 360
gactccacgc tcggcatctt cgacgccgac gtcaagcccg tcggcgacaa cgccatctcc 420
gt 422

<210> 8538
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-029-Q1-E1-G1

<400> 8538

cgggtcgagc cacgcgtccg aaagtacatg gagagcggcg gcggtggcgg cgtgaggagc 60
caccaccagg acggcgggccg gtactcgtg ttccgcccgg ggccgtacgg gcagttcacc 120
acggagccct tcgcgttcgc tgggaacggc ggggtgtcgc tgacgctcgg cctcccgcac 180
ggcgccggag gcagcgccga gcagaccgcg tcgttcttca tgggcagcac cacggccggc 240
gacagcggca gccacggcgc cgccaccagc tacgacatga acatgcagag caccaagtcg 300
ttcgcggcgc agtcatgag ggacttcgtg gcctagctcc cttaggacgc atagcatagc 360
agtcgtccac gcaattaatc aaatcatctc tccatcgatc aat 403

<210> 8539
<211> 95
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-029-Q1-E1-G3

<400> 8539

gggtcgagcc acgcgtccga ggacacgtgg gaaaaaaaaa aaaaaaaaaa ataataaaaa 60

aacaacaaaa aaaaaaaaaa aaaagatcaa aataa 95

<210> 8540
<211> 317
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-029-Q1-E1-G6

<400> 8540

aattccccggg ccgaccacg acgtcaaccc acgcgtccgc ccacgcgtcc gcggacgcgt 60

gggcgcacgg agtgaacaag gctgagcgtc gcctcattcc gacttccgat cccaacgga 120

aagcggagcc aggaccggga gctggaccat ttgcctcccc cttcgtcccc ttaaacgggc 180

cttaaatttc ccctacaca cataccggga gataaatctc tcacaaccaa cgtttgaaaa 240

aaccatttgt aactaaattt ttcaaaaagc cacttgagaa ctaccattac atggctgtta 300

tatttgggaa tcatcat 317

<210> 8541
<211> 466
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB189-029-Q1-E1-G7

<400> 8541

aggtataggt ccagaattcc cgggccgacc cacgcgtcca gcgctgtccg ctagacccccg 60

cccgaatcaa tggagattag ggctccgccc acgagcctga ggctcgcgcc gccgccccg 120

tccgccagct tccgccgaac cccgcttagg acctccttcc ttcgcggcag cgtgtcactt 180

aaagtgtgtgc aagtacggca gtcaaatgtc aacagattta agtgcaatag catacgaagt 240
aacctctttg ataggctaac aagggttgtc aggtcctacg caaatgcagt tctaagttcg 300
tttgaagacc ctgagaagat tctagaccag gcagttctgg agatgaatga tgacttgaca 360
aagatgcggc aggcactgc acaggtcttg gcatctcaaa agcggcttga gaatanatct 420
aaagctgcag aacaagcttc tgctgattgg tatcggaggg ctcaac 466

<210> 8542
<211> 422
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-029-Q1-E1-H1
<400> 8542

gggtcgacgc acgcgtccga gcacaacatc gttgatgcca cctcagagga agaatcccag 60
atgagttctg cagtgtcggg gtcagtcaac aggcattggc agatatgcgg gcttaccag 120
aggggaaggg cacggctgga tccaagcgtc atcttcgaca tgatatctgt cgccaagcat 180
gtgagccagc agttcatctc cctcttgatg tcagagattg ccgccgccga agctgaagaa 240
gaggctcagt gattgatgaa aaggaaaaag gactgggtgc gtaaagtgtc gtgtgttcca 300
acttcaacca aatgctgtag aaatcttcag gaatttggtt ccatttttat gttattatta 360
gtagtagtaa acaccgagga tttggattct gggaacgaac gacgtcgtgt tggctttggc 420
tg 422

<210> 8543
<211> 276
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-029-Q1-E1-H10
<400> 8543

ccggggccgac ccacgcgtcc acccagcgt ccgcccacgc gtccgcccac gcgtcgggct 60
tccgggctcc ggcttcttct cctcgccgtc gcgtgagact gcgctaaagc ctaggctttg 120
agacaccaat ggcctccgag acggcgacgg cgccacatt cgctctcgca tcgtcattct 180
cgcgcgggcg tttccttcgg caccttcttc gggcggccg gccaaagcctt aatcccctgc 240

ggtccttccc ttaaccctta aaccggggc ccgcgc

276

<210> 8544

<211> 426

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB189-029-Q1-E1-H12

<400> 8544

gggtcgaccc aaacgtccgc ggacgcgtgg gcggacgcgt gggatcacat tgagtagcaa 60

gtaatgtgtt ccaataatat gtagacattt gagacaaatc tgcattatta ttactaacia 120

aaactaagac agcaacatca acacacccaa caacagttca attcacccaa ccacctcctc 180

tccttgcctt ttgatgtgc cctcgtttt tcttccccga ccggccatca gttccgacga 240

ctgcttcctt cgtttgctcc tgcagccagc tgtttccacc gttcccaggc caatggctgc 300

gggtcccgcc tcgttcgact actcacctgc cgtttccacc ggttggcagg ccgccccatg 360

accatacca gtagaaaatt aacgaagcta atgggtacag acacangaca gttctaaaat 420

gggact 426

<210> 8545

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-030-Q1-E1-A11

<400> 8545

gtcgacgacg cgctccgaaca ccgaccgtct ccaacggcga caactgcgtc tccatcgggc 60

caggcaccct caacatgcac ttcaaaaact tcacctgcgg gcccggcggc cacggaatca 120

gcattggaac cctggggaac cagggtctcc ggccttctt ggccaacttc acggtgcgca 180

accccttgat ccgccactcc aacaacggct tccggatcaa gacttggcag ggcggtctcg 240

gcgccgtctc ctccgtgtcc ttccagaacg tgcgcatgga cgcggtgcgg aaccccatca 300

tcatcgacca gtactactgc ctctccaaga gctgcgagaa cgccacctcg gccgtcttcg 360

tctc 364

<210> 8546
 <211> 319
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-030-Q1-E1-A4

 <400> 8546

 gggctcgacgc acgcgtccga ccatagccac caccactccc tgctgcctgc tgctgtcct 60
 tggaaaactcc ttcaatggaa aaggggtgat ccatttattg gcctgcatta cagcttgacc 120
 gctgggcact gcttgtcct acggcaacta caatgcctct gctctggacc atcatccgtt 180
 gagagcaagg catgcgtcac acatgttcaa cctcgccatc agcgatgcgt gtctcgtaac 240
 agaatcagag caagcatcat gcagcagcag cagcagccag gactagaggg cgccgtcatg 300
 aagccatcag agcctgctg 319

<210> 8547
 <211> 382
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-030-Q1-E1-A5

 <400> 8547

 cacgcgtccg aggacgcgtg ggcggacgcg tgggcgccgc atagaataat tctggcgagg 60
 atgacgagct cctttctgaa ctaaaagata agtgggatgc aatggagaac aagtcctctc 120
 ttgccttgta tgggtgctgga gcaatcctcg ctgtctggat atccttggtt gtagtgagat 180
 ctctcgactc tgtcccgttg ctctcatgca tattggagct agtcgggctc agctaactctg 240
 gatggtttgt gtatcgatac ctgctttttc aggaaaatcg gaaagaattg gccggtgtta 300
 tccatgatat aaatagaagg attgttggcg atgatgaata actgtttcct ggtttggtac 360
 tccaattaac ccgccctggt tg 382

<210> 8548
 <211> 149
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-030-Q1-E1-B11

 <400> 8548

cggtcgacg cgcgcgtccg atccttcaag gagatcgcg agaggatcgg agttgaggtg 60
tagcaagttg tttctcctcg gtggcgcca cttaccccg gcgtcttgta catattccca 120
agagaaataa caagagcatc agtttctcc 149

<210> 8549
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-030-Q1-E1-B12

<400> 8549

gggtcgacgc acgcgtccgc acacgagtc gccacgcgt ccgcccacgc gtccgcatca 60
ateateatc atcttagtag tataggcacc aaatcaaac tgcaacatca attatctaac 120
tccaaaaacc atgaagctgg tgccttggtg tcttgcttc attgcttag tatcaagtgt 180
ttctgtaca cagacaggcg gctgcagctg ttggtaaca acaaagccat gagcagcaac 240
atcatccaca acaacatcat ccacaaaaac aacaacatca accaccacca caacatcacc 300
agcagcagca acaccaacaa caacaagttc acatgcaacc aaaaaacat cagcaacaac 360
aagaagttca tgttcaacaa caacaacaac aaccgcagca aacacaacaa caacatcaac 420
aaccceaaca ccgcaaaaac ctttacct 448

<210> 8550
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-030-Q1-E1-B9

<400> 8550

gggtccaccc acgcgtccga ccacgcgtcc gattcacacc taagcatccc agcttgagga 60
agggttcttg ggctgatgtt aaatacaaag gtgagtggt gaaaaggcca atctcagagg 120
ctgaagtagc ctggcttgca aggattctga tccggctctc tgactgggtg aatgacgccc 180
tggggcttga gtgtgctgat gctgaaggta gtccgtctgg cgccacctac attcagtttg 240
atgggaacac gacggtgggc gggccaaggg atgctgcgag aatggctctc ggtgctgtat 300
gttcattcat ggtgctagtg gggcaagcgg tactgaagtt gatg 344

<210> 8551
 <211> 189
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-030-Q1-E1-C1

 <400> 8551

 aattcaaaat cgcaaaaaac cgcactataa tatacaagct taattaagat tgaattaaac 60
 atcataatac ttataaacia ataacaaaaa ttaaattaaa tgaaattagt ttaaaaaaaaa 120
 ccagaattag aaaaaccatg atcataaaaa aaaaaacact aataaaggaa aaatcatttt 180
 aaaagaaaa 189

<210> 8552
 <211> 365
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-030-Q1-E1-C11

 <400> 8552

 ggtcgacgca cgcgtccgca gacgagtggg cggacgcgtg ggagcgttta ctcctaacta 60
 gtttgccgat cgaccggggc gacgtgagat acgagcggcg tcgaccgggg cccgggggagc 120
 cctccgaagc cgcagccgcc gatcgggggtt tccttcctaa ccggaagcgg aaaatgacct 180
 aagacaagaa aacggaggca ccaacgggca gcacgccgcc gaacttaatt ggaggtggag 240
 ccgaaacccc ggggcccgcc ggctgaccga accgcacctt gtctcccct gtcgaggagg 300
 tccgtcgccg cgcacccctg gcacgacctc gagatcggtc ctgaagctcc ggccgtcttc 360
 aacgt 365

<210> 8553
 <211> 450
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-030-Q1-E1-C3

 <400> 8553

 gggtcgacgc acgcgtccga gataatgtgc acagcagtc aagagataaa gtaccgggaa 60

aaagtgattc atatatgaaa gggaaacatg caaatgggtg agtacatctg ttgcattggt 120
ctgttttttt gttgatttgt aaatctgggtg acgaaaatgt tcacgttatt tgggactttt 180
tgagtattaa ccctgctatt cttcattctg atagtgaac aagcagtgct cggtcgtcag 240
agtcattggc ttatcggttg atgacacccc tacccaactt gggaaccaat agtttgcac 300
ctccaccttt gagttcggcc tccagttctg gctctgcagc acatacaccg aacagtatgc 360
atttttcagt cccataccat cagcctagtc ctttgccaaa gcctaacggg aaggaagcaa 420
taaatttggg ttcgcattga ataacagcat 450

<210> 8554
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-030-Q1-E1-D10

<400> 8554

cggtcacaaa ttaccgggtc cacgcacgcg tccggaccaa atcctgatga aagtgatccc 60
tgggatgacc gtcgacaacg cgttgaacat catgcaggag gcgcatgtga atgggttgtc 120
agtggtgatt gtctgttccc agtccgaggc tgaggagcac tgcacgtcac tcaggggcaa 180
cggcctccga agctcgatcg agcctgcgag tgggtggctgc taaggttcta gaaatgggtg 240
tatcttgttt tgccaagtat agtttgtaaa taccagcat atcaatctaa gctgaaactg 300
aaacgggttg gttacatgca gttatcgata caacgaagct aagtacctct tgggtaggtg 360
taaattctgt aagggttaacc tgtagaagaa gaaacatagt aattttgggt aatgatttat 420
gaaccattta gtt 433

<210> 8555
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-030-Q1-E1-D3

<400> 8555

gggtcgacgc acgcgtccga gcgactcacc gagcgagagc agcacacacg cagctagcta 60
ggagcatcag cagcggcagc agcaatggcg gcctccatga tcgcctcgtc agttctggcg 120

gtggcgctc agggcggtgcc gcacctcggg cgccgcgcct cctccttcgc cgtegtctgc 180
tccatcatca gcatcaagac cgacatgccc tacgggattg cgggtggcct gaccgtcgac 240
gtcaacgtca acgggagaaa cggcaagggc aagggcggtg accagttcgt ctacaagtac 300
ggcgcgaaact tcgacggata catcccaatc tacaacgagg atgactggtc tcccaacggc 360
gacgtctacg tcggtgtgaa cactgggctt ctgatctggg ctctcactct cgctggg 417

<210> 8556
<211> 405
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-030-Q1-E1-D9

<400> 8556
cggctctaaa ttcacgggtc caccgacgcg tccgcaaaca gaagctctgc tcggctatcc 60
cttcgatttc accacggcag gtgcggaaga acaagacgag cagcagctcc acgaacatcg 120
cgacaatctc tcgacttctg caccgagcagc cgctatgcct ttggcacaat tgcttgacgc 180
cgatcaacac cgggagattg tagataacct acgtaagagc agcacggcat actacacgct 240
ccagcagatt gttcgcctgt tggttctctt ccgtgaatgg cgtgaagagg aacaaacact 300
tattcaaatt cgtgcagaac gcaaggaaag aaggcgcatc tgccanacac aagcctgaca 360
ctcaacgcac gaaggcgctt ctagactcaa tatccaatgt cttcg 405

<210> 8557
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-030-Q1-E1-E1

<400> 8557
gggtcgacgc acgcgtccga ccacgacgtc cggctcgatc tccatctcga ccgtcgctca 60
ccgggaagct acgtacgac gaagcatggc gtccgtcacc gcccgcgccc cggtcgcagc 120
cctgcgcccg tcgtcgtcgt cggccttctt tggccactct agccgcctcg gccgcactgc 180
taccgcgtcg ccgacgagge gcagcctaaa ggcgagggcc aagggcgagt ggctcccggg 240

ccttccctcc cccgcctacc tcgacggcag cctgccgggt gacaatggct tcgacccggt 300
 gggcctggcg gaggaccccg agaacctgag gtggtacgtg caggcggagc tggatgaacgg 360
 gcgggtggcg atgctggcg tggccgggat gctgatcccg gaggtgctga ccaaggccgg 420
 gctgatcaac gcgccgcagt ggtacgacg 449

<210> 8558
 <211> 418
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-030-Q1-E1-E10
 <400> 8558

ccggtcgtaa ttcacgggtc cagcacgcg tccgggggtg gcttctctc cccctccggt 60
 tcgggttcgg gttcgtgagg ttctccgggg ttcgggttcg tgggtgagcg gatcgagatg 120
 gcggcgtcgg atgttgagta ccgctgcttc gtcggcgcc tcgctgggc caggacgac 180
 cactccctcc acaacgcctt cagcacctac ggcgaggtcc tcgagtcctaa gatcatctc 240
 gatcgggaga cgcagaggtc ccgcggttc ggcttcgtca ccttctccac ggaggaggcg 300
 atgcggaacg ccatcgaggg catgaacggc aaggagctgg acggccgcaa catcacgctc 360
 aacgaggccc agtcccgcgg cggccgtgga agccgccggc ggtgggtacg gtgggtggc 418

<210> 8559
 <211> 341
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-030-Q1-E1-E11
 <400> 8559

gtcgacgcac gcgtccgagg acacgtgggc ggacgcgtgg gccacgaagg agaactccg 60
 gatggcgatg cactggctgg tgcagggtg cagctacggc aactccctgg tgttccactt 120
 ctcgggcatc ggcgcccagg tggcggacga cgacggcgac aaggcggacg ggtacaacaa 180
 ggccatctgc ccgctggacg cgttccagac cgggcccac ctggacgacg agatcaacga 240
 ggtcatcgtg cggccgctgg tgcacgggc caggctgcac gccgtggtgg acgcctgcta 300
 cagcgccacg gtccctggacc tcccctacct gtgccgcatg t 341

<210> 8560
 <211> 463
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-030-Q1-E1-E3

 <400> 8560

 ggctcgagaat aacggggtcga cgcacgcgtc cgaaaaaaag agaaggagaa aaaggaaaaa 60
 gaagaaaagg aaaagaaaga ggagaaaaaa cctgaaccga attttgaaat attgagtaac 120
 cctgctcgtg taatgaaaaa tcaacttaaa gtcactctgc ttgtcgattc cggaagttac 180
 gttccgctca aagatgtttc catcggcggc atcgtcatgg ttcgtcatgt caaggccgga 240
 tctgaagatg aacaacttgt ggagccagtt gctgcatttg gtcccaaagc tgatgacgaa 300

aaggagcctg acccaccaga gccatttgaa tacaccgaag aataaaatcc aacattaaat 360
 tcaattatat attttttttc tacttttttt tctctcacta ataataatac attggattta 420
 ttcgtttaga aaaaaaatct atgtctaatt taatatatac tta 463

<210> 8561
 <211> 372
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-030-Q1-E1-F10

 <400> 8561

ggctcgacgca cgcgtccgta tataatctat gttagtgaca tgctaattgga aggtcaatgg 60
 gagaaaaagg cagtgtatac attttacttg gttcgtgagc tatatgtgac tttccgcaac 120
 ttcagaattc gcattgcaga ttatgtgctc tacagaaaaga tcaattccaa catgaatgaa 180
 cgctttccag atgctacatc agaagagctc gatgtgagtg atgctacatg tattatttgc 240
 cgtgaggaaa tggctacagc aaaagaaact gtcgatggg catctgttcc atgtgcattg 300
 tctaagagaa acaggagaac aggctaaaga agaggttcct ctacggcttc tccatgggag 360
 cttcagctcc ac 372

<210> 8562
 <211> 351
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB189-030-Q1-E1-F3

<400> 8562

gggtcgacgc acgcgtccga cccagagcag ttgctgtttg ttaaaaaaacc caacccaaat 60

tttaaaggga aaggtggtaa ttgatgcaat tcgccctaata ttaacccccca aaacaattaa 120

tctttgggtca aggaccaacg gcaagacgac atcaaaattt tgggcaccta aataagccat 180

cgattcaggc tcttatcatg ggctgaacag gcactactac tcaattgcaa tcaattaccg 240

gaaaaatgag ctagaggaga aaatgtttgtt gaacttgcac annaagaaat ggacagatgg 300

actaatTTTTg aagaagtttg acactcactc anaaaacaaa cgagcagact g 351

<210> 8563

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-030-Q1-E1-G10

<400> 8563

ggtcgacgca cgcgtccgat tgacagaggt gtatctgctg ctgctaaggt tgtcaggaag 60

gcatatccac aagagaaagt tggagtattt gttcagcgtg gaaaggggtg acccctctct 120

gtagttgaat acagtgaat ggatgcagct atgacaactg aaatcaatca aactactggc 180

cgccttcggtt attgctggag caatatctgc ttgcatatgt ttactttgga ttttctgaac 240

caagtgacaa acagtcttga aaaggatagc atttaccatc tagccgagaa gagaattcct 300

tcagttcaag ggtacacatc aggattaaag cttgaacaat ttaaatttga tgtattcaac 360

tattctcctt caacagctct ttttgagggt ttg 393

<210> 8564

<211> 373

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB189-030-Q1-E1-G12

<400> 8564

ggtcgacgca cgcgtccgca agttaggatt tttatcagga gggtttctan gagcaaaaatc 60
 ccgtaaaaat aaatcttcac aaaaagatct tgctaattgc cgccagacat ttgcagagga 120
 agatcaagaa aatttgtaca atcttgttca ggataaagct acttctggaa agcaggggtct 180
 tggcatcaaa ggcctgccaa tgaaagttgc tggccaacgt tggaaggga acaaaaacttc 240
 gtttgttgat agtgatgatg ataattcagc ccagtccgat gagtattcag aaatcgaaga 300
 gaatggcgat gaggaagaac atatcagtgc ttctgaatca atagacacag ataagaatgc 360
 agacaaagaa atg 373

<210> 8565
 <211> 218
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-030-Q1-E1-G5

<400> 8565

aggacgcgtg gggttgtgga gtaatacaac ttctcatct accatttcag tcatccaaac 60
 aatgccgaag tgcacctaca tgtcttcttc catctgtaat actatgctta ctatgtggac 120
 atgtggttgc ctacagaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaagaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaataaaaaat aaaagaaa 218

<210> 8566
 <211> 452
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-030-Q1-E1-G6

<400> 8566

attcccgggt cgaccacgc atccgaggac gcgtgggcag cagcttctgc ttgctctggg 60
 gggaaggaga gagagagaga gcgagagaga gatctagtag agaggctagt aggtggctcct 120
 cgaacgaaga tgttggcggt gttcagcggg caggtggtgg aggtgccggc ggagctggtg 180
 gcggcgggca gccggacgcc gtcgccaag acgaaggcgt cgcagctggt ggggcgcttc 240
 ctggccgcgt ccgagccggc cgtgtccgtg cagctcggcg accacggcca cctcgcctac 300
 tcccacacca accaggcgct cctccgcccc aggtcgttcg cggccaagga cgaggtgttc 360

tgctgttcg aaggggtgct ggacaacctg ggtcgtctga gccagcagca cgggctgtca 420
agcaagggcg ccaacgaggt gtcctctgtc at 452

<210> 8567
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-030-Q1-E1-G8

<400> 8567

attccccgggt cgacccacgc atccggaaga cgagtcaacc tcaaagacta aaaagataca 60
tataaggata cgtgataaac cggctgcacc tactgtagat gtcaacaaat tgaaagaagc 120
cactaaacag ctaggcttgg gtcctccgct gagtaggaca aggtcattat cagggacacc 180

tcaagacttc aatcaggctc ctacacaacc aggaggtcca gccgcagctg tttccccagc 240
aatgccaaat tctgcgattg atttatttgg aacaaatact ttagtgcagc cgcaagcacc 300
cactagtccc acaggctcctg ttattgcagg catgggagtg acggctgggc cgattcctga 360
ggacttcttc cagaacacta ttccatcgca tcaacttgcg gctcaactac ctctccttgg 420
aatagtccctg tcacggatgg ctcaaccgcg tcctggcatt g 461

<210> 8568
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-030-Q1-E1-G9

<400> 8568

ggtccacgca cgcgtccgag gacgcgtggg caaagatgca gtggcatatg cagactgggt 60
taagaaacat catcagtttt ctgatatgct tgttcaaacc tcaccagctg taactgggca 120
tgcttttcct agactgaaac tacggtacaa accatcactt gttcagagtg gaaggaaaga 180
cttgaagcta ggaatgcct tgatgtgtcc tcaggcgaaa catctggaaa gggggctttt 240
gctgcttgat gtgaggaatg attatgaatg ggatgttggg cactttgaag gtgctcagcg 300
gcctaattgtg gactgcttca gaagcacttc ctttggactt tcgggagaga tcctctaaat 360
ggtgtagaca aagagaggac agatatacta atgtactgca ccggggggga 410

<210> 8569
 <211> 436
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-030-Q1-E1-H11

 <400> 8569

 cggtcgaatt accgggtcga gcacgcgtcc ggatggaagc cacgatctcc aactctcagt 60
 ggaaacactc gagtcactga tcaagctaac gaaggaaggt atgaagatga aggttccacg 120
 gtatgacaag tctgcgtttg ggggaagggg tgaccgggct gatccttctg tatggccaga 180
 ggttgaaggg cccttagagg ttgttctgtt cgaaggatgg atgcttggat ttaaacctcc 240
 ttccaaatga agttgtgaaa gaagtggatc cacagctgga ggtggttaac aagaaccttg 300

 aagcatactc tgatgcttgg gacaggttca tccagtcatg gattgttatt aaaataagag 360
 aaccggtag cgtttaccag tggagactgc aggcagaggt cgctatgaga gcagatggaa 420
 agcctggaat gtctga 436

<210> 8570
 <211> 338
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-030-Q1-E1-H9

 <400> 8570

 ggggtccacgc acgcgtccgc ccacgagtcc gcccacgcgt ccgtgatttc caaggcattt 60
 gagggaaaat ctgctgtaaa caggcagaga atgggtctaca aggctatatg ggaggagctt 120
 cagagcactg tgcattgctgt ggaccagatg actacaaaaa cgctgatga agctgctgcc 180
 aacaagtaat cgatagatgc acaataacctg tgaaagcaca gattatctgt gcttcgaaga 240
 tcaggccatt gcttggacca aattttttct cttgggtggg attactttgc gtgtcagctg 300
 aatgggtcaat aatctgcggt atggatagcg catggctt 338

<210> 8571
 <211> 112
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-031-Q1-E1-A1

<400> 8571

agcggacgcg tgggacggacc cgtgggaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

aaaaaaaaaa aaaaaaaaaa aaaaacaaaa aaaacaaaaa aaaaaaaaca aa 112

<210> 8572

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-031-Q1-E1-A11

<400> 8572

ccgggtcgac ccaagcgtcc ggtgacacta accaccgcag atttagaagc agtggaagca 60

cgagtgatcc atggaaggaa gtttccgaag agggtcgtct ggctttccat gcgctgttca 120

gtagagaaaa gcttccgcaa agcttttctc cccacaagc agaaggctcg aaggaagttg 180

gcaaggagga ggaagatgaa gtcaccacag tggcagttga cctcaacaag agtaccacaa 240

gcattgatca tgacctcgac acaattggtg agccaagggc ttcctttccc aatgaactgt 300

cgccccctgaa gctgaaattg cgccgaacag gtttcaaacc atacaagaga tgttctgtgg 360

aagcgaagga gaat 374

<210> 8573

<211> 256

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB189-031-Q1-E1-A12

<400> 8573

ctcaccggca agctcttcag caccatcgac gatcttgacc atgccgcgaa gatcaagagc 60

accccgagagg ccgagaaata cttcgagca accaaagatg ctcttggcga tgttctcgcc 120

aagctaggct agacgcaagg gctaataatg gccatgtaat ttcggacttg tgtttgttca 180

tatggacccg gcaaggcaat gtaccatttt ctgttgatat tgtatcagga agcacttaac 240

tacaggaaan ccaacg 256

<210> 8574
 <211> 394
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB189-031-Q1-E1-A4

<400> 8574

```

gggccgaccc acgcgtcagg cattgtaaag gtgtcagcta nggaacaaac cacaaggcaa   60
agacaagaaa tcaacaacaa gttctccggg ggtttgtcag aggtcgaaat tgagaagatg  120
gtgaaggagg ccgagctaca ttctcagaag gaccaagaaa ggaagtctct tattgatctc  180
aagaactctg cagataccac gatctacagc attgagaaga gtgtcagcga gtacaaggac  240
aaggtccctg ctgaagtcac caaggagatc gagtctgctg tctctgatct gagggcagct  300
atggctgagg acgatctgga caagatcaag cagaagctgg aagcagcaa caaggctgtt  360
tcaaagattg gagagcacat gcaacaaagt ggcg                                     394
  
```

<210> 8575
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-031-Q1-E1-B1

<400> 8575

```

cccacgcgtc agcccacgcg tccgcaagaa gaagatcaag accgacaagc cctacgggat   60
tgggggtggc ctgaccgtcg acgtcgacgc caacgggaga aagggaagg gcaagggcgt  120
gtaccagttc gtcgacaagt acggcgcgaa cgtcgacgga tacagcccaa tctacaacga  180
ggatgactgg tctcccaccg gcgacgtcta cgtcgggtga accactgggc ttctgatctg  240
ggccgtcacc ctgctgggga tcctcgggcg cggcgccttc ctgctctaca acaccagcgc  300
cctctccggc taaggatata caatgcatgc gcttcttgcg attcgtcgtg taaaatcagg  360
gtgtctgt                                     368
  
```

<210> 8576
 <211> 324
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-031-Q1-E1-B10

<400> 8576

ggtaacggtc aggaattccc gggccgaccc acgcgtcagc ccacgcgtcc gcccacgcgt 60
ccgcacgcgc gtcctcttct tgggtgctggg cgccgtcgtc ggagctgtca ggcggttctt 120
caacaggaac aacgacgatt acgacgacta ttgattatca gtgccaagct cctgctatac 180
ttcaccttcg tgtgtgcgtg taatatatga cgaaattttt cccgtgcgga attctaggaa 240
cggagtgtac tgacgatgca tcaggagatg tatgtaataa ttttgtccag tgaaatgtaa 300
tgagcatagc gtctatagtt aaaa 324

<210> 8577

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-031-Q1-E1-B11

<400> 8577

ccgggtcgac ccaagcgtcc ggccgcgggt ctgatatgga aactaggtac gggcttctac 60
gaggaaccct cagggctcca gccctgggct ggatgatgta caatgttctg gtgagcaatg 120
agaagtcgat ccagtctcag tacaagtccc acgtctacgc caaccctgac aacgtgacgc 180
cagatatcat cgagagccga tacgagttaa ccaaaagaaa aggcgcacgg ttcgtccccg 240
cggccttctt gacaggcctc cttgatcctg tccaatcgag ggaggagttt ctgcagttgt 300
tcgccaagtt agacggagac gtaccagttc tggtagtgtc aacggtcaat gctcccaaga 360
ga 362

<210> 8578

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-031-Q1-E1-B2

<400> 8578

ggtcaggaat tcccgggccg acccagcgt cagcgggtga ccaactgggaa attgttctct 60
ctgggatctg taattttttc ccccttcttg tgcgcgcatg tcatgtgcag ggctgggtgca 120

gacctgggcg gcggtgatca tgggcgtggt cgcgggcagc gtgccgtggt tcaccatgat 180
 gatcctgcac aagaagggtg cgctgctgac gaggggtggac gacacgctgg gcgtcttcca 240
 cacgcacgcc gtcgcggggcc tgctggggcg cgctctcacg gggctgctgg ccacgccgga 300
 gctgctggag atcgagtccc ccgtgccggg cctccgcggc gcgttctacg gcggagggat 360
 ccgccaggtc ggcaagcagc tggcgggggc cgccttcgtg gtggcctggg acgtcgtggt 420
 cacgtcgctc atcctgctgg ccatcggcct 450

<210> 8579
 <211> 412
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB189-031-Q1-E1-B4

<400> 8579
 ggtccagaat acccgggccg acccacgcgt cagaaaaaaaa atcatcctat cctgtcaaat 60
 gttctttgaa atttagttca ctogtaggct accttcaaag atatgattgt aatctgcagt 120
 tttggaggca tcacaatgga gataggactt tgcagttgaa cttggcggca aatgatcgga 180
 ctttgtatcc cacattatatt gatgaatggt catgttggtt aagtgttctc ggttctcact 240
 atcaaattga tagttaccag aggggggtggt cttgctgatt gcagatctct angtgggata 300
 cttgcatggg caccgaaaga tccagatcta ttcaaacctt caacaacctt tagctcattg 360
 tgtttgttca gtgtcctcta cctggaagta gataatgatt ggggtcattg tt 412

<210> 8580
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-031-Q1-E1-B7

<400> 8580
 ccgggtcgac ccacacgtcc gcttgacagc atgaaccatt catctgctca ggtaagagaa 60
 gcaattggta ttgccatgtg tggtacaacc tcaaatatga cactttctgg gttatttggc 120
 actggatggt caccgcaagg ccttcatggg gatgtaagca tgattgaaca aacaggaaat 180
 aaatattggt ctgaacgttt gacagatgga gctaataat tagccgtaag tatacaaaat 240

agttactcaat ctaagcaact agaatacaaca tcagattcgg ctgaagatac catggatgat 300
agagagcagg ctgatgctaa aaggatggaa acgatatttc attttatgat cgcattcttg 360
aagtctgggc gatcttctgt tctactggac actattatta ggcttgtgta cccaattctc 420
tcactacagg aa 432

<210> 8581
<211> 354
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-031-Q1-E1-B9
<400> 8581

ccgggtcgac-ccaagegtcc-gagegccaac-gggttcgaga-tccggcggta-cacggacgcc 60
atgtggatca ccacggcgcc catcgaggac atctccttcg tcgccgccac gcgcaccggc 120
ttcctacagc tgttcgacta catccagggc aagaacgcgt acaaccagac gatcgagatg 180
acggcgccgg tgctgacgcy ggtgtcgccc agcgacgggc ccttctgcgc ctccgccttc 240
gccgtgagct tctacgtgcc ggccaagaac caggcggacc cgccgccggc cgagggcctg 300
cgcggtggacc gctgggcccgg ggccaggtac gcggccgtgc gccgcttcgg gggc 354

<210> 8582
<211> 323
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-031-Q1-E1-C1
<400> 8582

attaccgggc cgacccacgc gtcagcccac gcgtccgccc acgcgtccga ttgattcttg 60
aagagatcga gtttcttttg caccacaagg tccaggatgt cttgcaactg cggatcaagc 120
tgcggtcgc gctcaagctg caagtgcggc aagaagtacc ctgacctgga ggagacgagc 180
accgccgcgc aggccaccgt cgtcctcggc gtggccccgg agaagaaggc cgcgccccgaa 240
ttcgtccaag ccgcggcgga gtccggcgaa gccgccacg gctgcaactg ccgtggcaac 300
tgcaagttcg acccctgcaa ctg 323

<210> 8583
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-031-Q1-E1-C2

<400> 8583

ggctctagaat acccgggccg acccacgcgt cagcacctgc gcgcctcgac tggtagcccg 60
aaccttagct agcaggtcgg aggcgagaga gcagccatgg cgcggtgcct cgcgctcgtc 120
tcctccttc tcctcggcct cgcctccgcc gcctccgctg ccgatgcgcc ctttgctcgc 180
gcgcacaaga aggtttcgt ctcccgcccc aagccgggcg tcgagcgcgt cgcgctctcc 240
ctcgacctct acaaccaggg atccgcgact gcctatgatg tgtcacttaa tgacgactct 300
tgccaacac aagcatttga gcttgctact ggagagaaat cgaagacatt ggaaaggctt 360
gacctgggtg cactgctac acacacatat gtctggaga acaaacaca gggcaagttc 420
caaggttcac cagctattat tacgtaccgt g 451

<210> 8584
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-031-Q1-E1-C3

<400> 8584

gggccgaccc acgcgtcagg aaaaaaacg cgcgcaaagc aatcgttgga gccaacagc 60
tagggttggt ggcagtcggc gggccttcgt tcttggttg gtgacttggg gttggttcca 120
actgatctct ctggccgtaa atggctcgga agttgcaaga acagagccac caaaaccgcg 180
ccacacagca ggcacatgtg atcgatcgag agcgacgact gaggacaagc cgcgcggcgc 240
tgcgacccag cggcgcgacc gacgcggacg ggcgcgcggc cggctctgcc cgccctgcag 300
ctccacccac cggaaccgaa ttaaacaccg ccgtcgccgc ggctggggct tgcgctctcg 360
acagacaggc catgcgcgcc acaaggctgt tgaccccgcc caagccggcc tggcatgt 418

<210> 8585
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-031-Q1-E1-C4

<400> 8585

ggtcaggaat acccgggccg acccacgcgt cagatgatga agtcatgcga gcagcggggg 60
agggacctcc tgaaccagaa cgtgataacg gccgcggggc tggcggagtg gctgaggggg 120
gcgaaggagg gcgggcacca cgagaccgtg agcctggggc tgccgtccta ctcgctgctg 180
tgcaccgtgc tgcagtcgat cagggccggg tccggggggc tgggtgctggg cagcttcgag 240
gtgaaccagc acaaccggcc gcaggaccgg ctgctggact ggttcttcca ccccgctgctg 300
gtgctcaagg agcagataca ggcgctgagg atgaccgagg aggaggtcag gttcctggag 360
aagctgaccg tcttcgcggg caacgtcgcg ggcgctgggg cctggcgggtt ggaagaacgg 420
cgccgggatg atggtggtgc cccaggacc 449

<210> 8586

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-031-Q1-E1-C9

<400> 8586

ccgggtcgac ccacagcgtc agcggacgcg tgggcgacgc cacagcttgt gttgtgcgcg 60
cgcaatggca ctcgtgtccg cctcctcgtc ctccaccacc gccgtcgcgg cgctcgccag 120
gaatgggcag caacgggcgt cgtcgtcggtt gttctectec tctcctctt cctccttctt 180
cgtgggcagg acgtgctga ggcaggccga ggcagcccgg ccgtcgttcg ccgtgcgcgc 240
cgcggcggat tccgacagge cgatctggtt cctcggtagc acccctccac cgtggctcga 300
cggcagcctt cccggcgact tcggctttga tcctgtggc ctcggatctg acccgagag 360
cctgccgtgg aacgtgcacg ccgggct 387

<210> 8587

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-031-Q1-E1-D2

<400> 8587

ggtcaggaat acccgggccc acccacgcgt cagagaaaag attcgcggcg gtggagtcgg 60
 agctcaactc atcaataggg tttgatcagc gctccgctcg tgctagccac ccagcccccc 120
 cgcgcccact tgcgacggcg atggcttcgc cgtactcgtc cagctggggc gacgcgccgc 180
 cctaccacta ccacgggaga cccagccag cgcccgaactc acccgcatcc tccgacgggg 240
 ccggggccccg ctccgtcttg atcggcgccc tgctgccatg gatggacgag gactacctct 300
 acggctgctt caccacctcg cgcgagcttc tttcccttgt catcaaacgg aacaagcaga 360
 ctggccaatc agagggcttt ggcttcctca aattttctga ccaatacggc 410

<210> 8588

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-031-Q1-E1-D3

<400> 8588

ggtcaggaat taccgggccc agccacgcgt cagggtcaata caacgacatc agcgagctgt 60
 ctctcaccg cctgcaagag atcaagcgct tctttgaaga ttacaagaaa aacgagaaca 120
 aagaagtcgc agttgatgca ttcttgcccc cgacaacagc tcaagaagcc attcagtact 180
 ccatggacct gtatgccag tatattttgc aaagcttgag gcagtagatt gcaagcaaca 240
 atttatctat catgcgtctt ggatgggggc gtgattttta taagccaaat cgcttgctat 300
 attgggaacc ttggaattga gaacagcgtc actagctgtg attcgtcctt ttctcgttta 360
 attatcatat gaataggcca agtccatacg tttaccgtgt ggcgctctgt cagtc 415

<210> 8589

<211> 180

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-031-Q1-E1-D4

<400> 8589

ccctggatac aaacaagtcc ataacacagt gatcaactaa aatttactac cattgtcgtt 60
 gaaccaatta gcagtaccat cacatataga agttcaaaat tgggactctt tcttgttgag 120
 taacagaatt gcaaattcag ctaaaataac ttcgagttca ctcattaggt ctcatttggg 180

<210> 8590
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB189-031-Q1-E1-D5

 <400> 8590

gaattcccg ctcgaccac agcgtcagga tacggaatcc tagtctcgca ggtgcccag 60
 gacactgaag ctttctactc gctgagagac ccgtctgaag tgatgggggtt cctcaattcc 120
 ttggtgagat ggaagaagca cccgctgtga cgcaactgaa aacacaacga ctgattcaga 180
 agccgtaaag cgactgtact tcgtgcgggc gcaattttgt agagtttttg gtcaccggg 240

 tggctcattc tttcatgcgt ttttattttt ttttttttta actgtcacag tccttcgtca 300
 ctgagaaata acaagtgggt gtccacacc ctcttgcaac tgtaatctgt aagcaagagg 360
 ccctccctgt tcggtctata tatatatatt gaatanaacc gggacgctt tgccttgccc 420
 tg 422

<210> 8591
 <211> 205
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-031-Q1-E1-E1

 <400> 8591

gggccgagcc acgcgtcagg ccaagcgtac gcgcacgctt caggtgactc atgagtttgg 60
 cttcgcgtgg ctaaactacc tccgaggaag gggtgcccat gctgcaaaa atcccgcca 120
 tgttggctcc acagtgtgga tccaggatta ttcggcttgg ggatagcgct caaccagttc 180
 ggttacatga tgtcccgcaa agata 205

<210> 8592
 <211> 344
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-031-Q1-E1-E10

<400> 8592

tcccgggccg acccacgcgt caggggaatgc gtgagggagg cactcagtat cgggattacc 60
aatggtggca atgtcgatag cgagctctcc aaccggtgga gagcacagac gatgaattag 120
cttgatgtct tgagcaggac gctgacgttg ctctcaagt atggtacagt cgtctgagca 180
ttgatgctta gatgttgatg gttttggtga tgtacctccc atcatttgcc cttttgttgt 240
gtatagtacc taggtgattg tgcgatgctt tgtaatgtct tcctcagctg gtcccttacc 300
cgtcctacta tatttgcta tgtatacccc gggtttgata gttt 344

<210> 8593

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-031-Q1-E1-E2

<400> 8593

gggccgaccc acgcgtcaga gttgctccga gcatcttaat tattatatgt attattacaa 60
ggcacaatgg cacatacata cagtgataca gctgcaatat acatgaacac cttttgtctc 120
gctcctgctt tatctatgca actgctggca tgcattgaaa agacgcctcg ggagataaga 180
cccctgttat tctgctagta cgtatgcatg catgtgcacg atcgatgggc gcgatggcca 240
tatcatccgt tggttcagta gtagggctgg atcttcacgc gctggggcaa tcccaccgg 300
tgcgcctggt gccctacaac ccggactttt tggacgaatc cgtgctgtgg accgagagcc 360
gcgacgt 367

<210> 8594

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-031-Q1-E1-E4

<400> 8594

gggccgaccc acgcgtcagc ggacgcgtgg gcggaccgt gggctccatg agctttcaaa 60
caaccaaagg ttcccaattg ctggtgcttc caacctgttg gctaacacc tttatccata 120
ccttgggatg gaactgtcaa ttggtacaat gatccctgga tgggatgaga aggttcctgc 180

cttgactat gttgacagtg aggggtgcgcg gctcgtgggg aacaggttct ctgttggtc 240
 tggttcactg tatgcttatg gtatcttggg tgatgggttac cgcttcagca tgtcagttga 300
 ggaagcagcc gaattagcgc gacgggctat ttatggggca acattccgtg atgcagcaag 360
 tggtggttgt gttagtgttt ac 382

<210> 8595
 <211> 410
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB189-031-Q1-E1-E7
 <400> 8595

gaattcncgg geegacccac gcgtcagaca agactgcctt tgatatagct gaagggttac 60
 cagtatgtga ggagtcttgc gaaattaagg atatcttctc tcaacatggt gcgctcagat 120
 ccaggagct caatcagcca cgagatgagc tacggaagac agtgacagag ataaagaaag 180
 atgtccacac acagctggaa caaacaagaa aaaccaacaa aaatgttcat ggcattgcta 240
 aagaactcag gaagttgcac agagaaggca tcaacaacgc taaaaactct gtaactgttg 300
 ttgctgtgct gttcgcaaca gttgcttttg cagctatatt caccgtacct ggtggaaatg 360
 acaataatgg acttgcagtt gttgtccaga ctacgtcctt taagatatcc 410

<210> 8596
 <211> 150
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-031-Q1-E1-E8
 <400> 8596

agaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aacggacgac 60
 gctcaagatg tttcatcctt acatagtcct gcaagatata tcgtagctct tcaataatgt 120
 caactagcat tcaattcaca ggccgatcca 150

<210> 8597
 <211> 373
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-031-Q1-E1-F1

<400> 8597

ggtcaggaat acccgggccc acccacgcgt caggatcatg aaatgtgacg ttgatatcag 60
gaaggacctg tacgggaaca tcgtcctcag tggagggacg accatgttcc ctggcatcgc 120
tgacaggatg agcaaggaga ttactgccct cgcgccgagc agcatgaaga tcaaggtcgt 180
ggcgccctct gagagaaaat acagtgtttg gattgggtggc tcgaccttg cgtcgctcag 240
tacgttccag cagatgtgga tatccaagga tgagtacgat gagtctggcc ctgctatcgt 300
ccaccgaaaa tgcttctgag ctagctatct gccgcgcctt tcatagcgtg tcaagctgtt 360
gagatctgcg ttg 373

<210> 8598

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-031-Q1-E1-F3

<400> 8598

gggccgaccc acgcgtcagc ggacgcgtgg gcaaatcctt ttgattttgg ttccatgcaa 60
agtttgctca atgatccatc tattaaggag atggcagatc aaattgcaag ggatcctgca 120
ttcaaccgga tggctgagca gctacagaaa agtgctcaaa gcacaggaga acagggcaca 180
cctccattaa atcctcaaca atacatggaa acaatgcaaa aggtcatgga aaacccccag 240
tttatgacca tggcagagcg tctggggaat gctcttatgc aggatcctgc tatgtccagt 300
atgctggaaa ccttttagtag tccatcacat aaggagcagc tggaagagcg tatgtctcgc 360
attaaggaag atccagctat gaagtcaatt cttgatgagt tagagaatgg gggcccttct 420
gcaatgatga agtac 435

<210> 8599

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-031-Q1-E1-F9

<400> 8599

ggtatcggtc aggaattccc gggccgaccc acgcgtcagc ccacgcgtcc gccacgcgt 60
 ccgcccacgc gtccgcttcc gagctctttg cacaggagag aaaggggtcg gcaagagtgg 120
 caaagccctc cactacaagg gaagtaagtt ccacagaatc atccccagct tcatgtctca 180
 aggaggtgac ttcactctcg gggacgggag ggggtggtgaa tctatctacg gcttgaagtt 240
 tgcggtatgag aacttcaaga tcaagcacac tgggccaggc cttctgtcca tggccaatgc 300
 cgggagagat acaaacggat ccagttttt catcaccaca gtgacaacaa gttggttggg 360
 cggaagcat gtggtgtttg gcaaggtgtt gtctggaatg gatgttgtg 409

<210> 8600
 <211> 93
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-031-Q1-E1-G11

<400> 8600

agcccacgcg tccgcccacg cgtccgaaaa aaaaaaaaaa aaaaaaaaaa aaaaaata 60
 aaaaaaaaaa aaaaaataaa aatatgtaat aag 93

<210> 8601
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-031-Q1-E1-H1

<400> 8601

ggtccagaat atccgggccc acccacgcgt caggacgctg gcagaagaga accagaagct 60
 gaaagagctt ctgcaaaagc ttctggcgctc eggcaacgat cagatggggg tcatcacgga 120
 cctaagttag aaggtcaagg tgctggagcg gaggttgcca cgcaagaaga gaccaaaggt 180
 gaggggtgcac aagccatcca ggcattgttc ctgtgtccac tgaaaggata agtctgtaag 240
 gttttgaggt tttatgttgt atggatcccc atgttgcttc ctgtgtccag ctattgtgca 300
 ctgtgtaggt atagccatgc tgtggcactg tgcttcgtct tggacaacac aaggtgtggc 360
 atgttctgta ttttatgtct gtataatgca tccaactaca tctaattgtc tgtgaacaat 420
 tgattgggac aaatcgatat gac 443

<210> 8602
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-031-Q1-E1-H2

<400> 8602

ggtaacggtc aggaattcca ggcacgcgta agcccaagcg tccgccatca tctgagacct 60
tatcccggtat tcgaaatgag aaggccagga gatatttgag ctgcatgcgg aaaaaatata 120
ccgtgccctt tactcataaa ttctgacatg ctgacccctt ggctcttcgt cttctagagc 180
gtttgcttgc atttgatcct aaagaccggc ctagtgcaga agaggctcta gctgatccat 240
actttgcatc ccttgctaata gtggaaegtg agccatcaag acacccgatt tctaaaacttg 300
agtttgaatt tgaaagaaag aagctggcca aagatgatgt tagagaactg atctatcgag 360
agattttgga gtatcatcca cagatgct 388

<210> 8603
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-031-Q1-E1-H9

<400> 8603

aattccccggg ccgacccacg cgtcagccca cgcgtccggt tacctatgac tgggcttccg 60
aggttttcat tcaaataaaa cacattagat ccggttttcc tcggcttctc attcagccaa 120
ttcacggttc aaaatccact ccttaaaatt caacataaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa tctaaaaaaaa acagtaacct aagaaacaat gtaaaatatg aaaatgaaat 300
aaaaaaaagg gggggcccca aaaaggttca aattaaagta tcgggttaaag gaaaattaaa 360
acctctccaa aaggggcccc aaatttaaata taagggggcg ttttttaaaa 410

<210> 8604
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-032-Q1-E1-A10

<400> 8604

gggtcgaccc acgcatccga ctacggcggc atcatggtgt gggaccgctt taacgacgtg 60
cagaacaact acagcagcca ggtgaagggc agcgtctgat gggcataccg catacgaagc 120
ttcaagctac agcacctagc catgcatata tatatagtgg ctattcgta agttatcgga 180
ctgctagata caaatataat aagagcggat catcgggaga caaagacgca tgtcagctat 240
tgtctcgttt tctaagcaac gagcgagagc tgcattgcgt ggtagattt aatatggata 300
ttgcccatag gttatgtaat taaatcaaataaatgttaag ttcattatga atgtgtcgaa 360
aa 362

<210> 8605

<211> 228

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-032-Q1-E1-A11

<400> 8605

cggtcgacc cagcagtcgc accatgtcgc cgccgttgcg cgaggagttg atgattgcgt 60
acaaggacga cgaggtcgtg gacgcctgag tgcggcaagc agagaggagg atcgacgcca 120
gcagcgtctt atcttaattg ccttggtgtt caatgatgaa tcgatcgaat tcccttgggt 180
tagctttatt attggtgttg ttattattaa ttgactcgc tataaaaa 228

<210> 8606

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-032-Q1-E1-A5

<400> 8606

gcccgggtcg acgcacgcgt cggcggttgc gtcattgggg agagagagaa gtgggagacc 60
cgcgagaggc tgccgtgtag ggactaggga ccgtagagta agcgacagcg aaggagggag 120
agggggatgg ccgggatcgg gccgatcagg caggactggg agccggtggt tgtgcggaag 180
aaggcaccca ccgccgtgc caagaaggat gagaaggccg tcaacgccgc gcgccgctcc 240

ggcgcgagaga tcgagacccat gaagaagttc aacgctggta tgaacaaggc ggcgtccagc 300
 ggcacatccc tcaacaccaa ggcctcgac gacgacacag agaacctcgc ccatgagcga 360
 gttccaagtg acctgaagaa aaatctcatg c 391

<210> 8607
 <211> 413
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-032-Q1-E1-A8
 <400> 8607

gggtcgaccc acgcatccga gactacgcca cggcatcaga cgaccagcga agaagctgac 60
 ggaggggcca ctctaagccc aattgaatca tgatggcgtc gattaatcgt caccgcacat 120
 cgagcgcggt ggaagatctg gacatgcagc ctgctctcgg acagatcatt aacatcaagt 180
 tggtagagac tggggagaag gagaagctaa tggacctact ccgcgaacga ctcgctgact 240
 gcggctggag ggatgagatg aaggcactct gcacggcata tgcacgcac acagggataa 300
 atactgtgac agtagatgac ctcatcagg taattactcc gaatggaaca ccatccatgc 360
 ctgagtcact gaaggcagaa ctctgcaac tcatcgggtc catccttatg tcg 413

<210> 8608
 <211> 420
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-032-Q1-E1-B1
 <400> 8608

aattccccggg tcgacgtacg agtacgcgtc cggctccagtg cgcgcgtaaa gcttgcttag 60
 ctagccgcca tggcctccct cgccgcgcgtc tccgtgaagc ccgtggccat caaggggtctc 120
 gccggcagct ccatctccgg aaggaagctc gccgtcgcca ggccgtcggc ccgctccatc 180
 cgcaggcccc gcgcagccgc cgtgggtggc aagtacggcg acaagagcgt ctactttgac 240
 ctcgacgaca tcggcaacac caccggacag tgggacctct acggctctga cgcgccctcg 300
 ccctacaacc cgctacagag caagttcttc gagacgttcg cggctccgtt caccaagaga 360
 ggtctgctgc tcaagttcct gctgctgggc ggcggtcac ttctggccta cgtcagcgcg 420

<210> 8609
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-032-Q1-E1-B3

<400> 8609

cggtcgacg cacgcgtccg accacgcgtc cggcgccatg tggtcgtggc ggcgaagctg 60
 tacgcggaga tggacgcgtc cagcgagctg gaggcgtcag agcggcggat ggagcgggtg 120
 aagcagcaca gcggggccaat cccggcgagc acgacgggga cgggcaaggg gtcagcggcc 180
 gatcccgag agaagctgat gagtaagctc agggagcagc ggcagaaggt gcgacgggtc 240
 atggagggat cgtctgtggaa cgtcgccgcc agcaaggcgg cgaggctcat ggccaagtgc 300
 gtctcgcgcg tgcgcgcgcg catctccctc gcctttgccg cgttcgttcc aggccttccc 360
 ccttgacgag taggacgcgc gtgggcgctc ggtcactcat ccggatcggc ccgtta 416

<210> 8610
 <211> 297
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-032-Q1-E1-B4

<400> 8610

gggtcgaggc acgcgtccgc acacacgtcc gccttgtttg gattgggggtg tttgttccat 60
 aaacagtctc attgctaatt gtttcattat tactacaaat cttggtcaag gcgtgaatat 120
 ccttgctctt gatataatta tagtattttg aatccctatt gtgtttttta cttaagtgat 180
 aaatgttgca aagaaacat tagatacaag gataagcggc agaaggtgca acaggtcata 240
 aaaaggatca ctatggcaca tcactcaaag gagtgaagct aagctcatcg tcaattc 297

<210> 8611
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-032-Q1-E1-B9

<400> 8611

aattcccggg tcgacccacg agtccgactt tctataaaaa aaaaaataaa aaaaaaaaaa 60
 aaaaaataaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagggggc 120
 ggccccctcta ggatctaagc ttatatattcc ttgtaaatgc tttctcacat ctcttatatt 180
 gtctcccaaa ttttaattctc aggggctctt ttttaaaagt ttcgactggg aaaaacctgt 240
 gtttttccaa atttaactcc ttttgcaaca taccctttt tcaatatggg gttttatcca 300
 aaagggcccc acagctttcc cttttcaaaa tttttgcacc cttaaaggg aatgtgacac 360
 cccctatttc gcggcattaa acccgccgtg tgtgaggggt tttccca 407

<210> 8612
 <211> 398
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-032-Q1-E1-C10

<400> 8612

gggtcgaccc acgcatccg accacgcgtc cgcgacgcg tgggaaaaaa aaaaaaaaaa 60
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaataaaaa ataaaaagat aaaaaaaaaa aaaaaaaaaa ataaaaaaa aaaaaagggg 180
 ggggtcgccc taagggttca aactttattt ccccgtaat tggattttta acctcttcaa 240
 agttgtcccc aaatttcatt tcaggggctt tctttttaaa agttcgtgct gggaaaaacg 300
 ggggttttac caaattttac ccccttaaag aaaattccct tttcccaaat gggggttata 360
 tgaaataggc ccgattcatt tccctttcca aaattttt 398

<210> 8613
 <211> 349
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-032-Q1-E1-C11

<400> 8613

gtgttttttc tggcattgat gcaccagaag acgaactgcc tggataatg ctaacgaacg 60
 atgactatga tccaagaagt ggtctacgag caatagatgg aggacacgat tatgaagcag 120
 gtcttccaga ctctgatcca ctaaggcacc acaacgatta ctgtccttgg gtgaatggca 180

atgttgctgc tgcattgtgt ctgagtaccg gtctgagcac agctctttca ggctggcacc 240
 tcacggtaga tgccatccag actctgcaat ctcttggcca ggctcacaat cagacgatgc 300
 agtcagactc tgcgggttca ttacagaagg atcatcacgt cccgcttat 349

<210> 8614
 <211> 407
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-032-Q1-E1-C2
 <400> 8614

cggtgccacc cagcggtccg accacacgtc cgcccacgcg tccgagacga cttgtttcat 60
 tgattettga agagategag cttctttttgc accacaaggt cgaggatgtc ttgcaactgc 120
 ggatcaagct gcggctgctg ctcaagctgc aagtgcggca agaagtaccc tgacctggag 180
 gagacgagca ccgcccgcga ggccaccgtc gtctctggcg tggccccgga gaagaaggcc 240
 gcgcccagat tctctgaggg cgcgggcgag tccggcgagg ccgcccacgg ctgcagctgc 300
 ggtggcaact gcaagtgcga cccctgcaac tgctgatcac atcgatcgac gaccatggat 360
 atgattatta tctatctagc ttgtggtggt ggttgaacaa taataag 407

<210> 8615
 <211> 188
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB189-032-Q1-E1-C4
 <400> 8615

agcggacctc gacgcccgcg ccaagtggc cgagcccagc ctacagaccg tctgatggat 60
 cgagcgcaag gggcttagcg tatgctagtc aaagaatata atttgggtgc ctatatctat 120
 agtttgatgt agtatgtcct gtantangaa cagtaatttc ttactgtgag ttagtttacg 180
 gttcaaaa 188

<210> 8616
 <211> 443
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB189-032-Q1-E1-C6

<400> 8616

attgccgggt cgacccacgc atccgaccac ttgtacatgc agtcgtcgcg ggtaatctgt 60

cactacacgt tagaggatcc ttcatttcgt tacgtgtttc ctcagtccta taagcatgtg 120

gatcagtggg tgagaagcca cgaagggtgac tgcaaggcta taataaattt gtacaatgag 180

cagttgcttc aatcaactgca ggctgataat gagttgagga ggattgcaca tgacatctca 240

agtcacggga ggtatacggg ccgttttcatt actacgaagc agctagtaaa ggatggacgg 300

aatccagagg cagtttttga cattctaagt ttgagggtaa tcttggagcc tcgggtgtggg 360

ggcaattcat ctgattgggg ccctagggct tgccacagga cacatgacgt tattcacgcc 420

atgtgcaatg agatcccagg ttc 443

<210> 8617

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-032-Q1-E1-D1

<400> 8617

gggtcgacgc acgcgtccga catccagctt cccccaacaa aggaatctcc ctccccctcc 60

tcagcagggt agccatgttt ggtcttcgtg cccgcgcagc ggcgcagctc cagcgcccaa 120

ccccgtctcc ctctctcgct tctctggcgt cgttctcgct cgcgaggctc ggggtgcgcct 180

ccccgtctgc cgccctcgcg cctctggctt ccgcaccgcc gtcgcccgtc gccagggaga 240

cacagccgac ctccctctcc gccaggtggc ctgccgcgcc catgcgtccc tggggaaccc 300

gtggccactc caggccgacc acgcgcgttc tctgcactgc tgccggcagc gtccaaagag 360

aggggaaaga actgctagtt cagcatttgc ttgttggtga aaag 404

<210> 8618

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-032-Q1-E1-D10

<400> 8618

ttcccgggtc caccacgcg tccgaaaagt ggcaagggat atgttcacga tggactatcg 60
ctaccctctc toggctttcc aggcctttgc catttgtctg agtagctttg atacaaaatt 120
agcctgtgaa taaatggaga agaacaaagg taaaggagaa cagcaggttg cttgcattag 180
gccatcagtg tacctctttc catctggctc tcgtgttgcc ttggttgtat ttgtgcttaa 240
tgtagccatg aagttgggtg ccatatatgg acgcatgtgt tgttggttggc cctctccctt 300
agaagtgatt aaaagttgca tttggaccac atgtt 335

<210> 8619

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-032-Q1-E1-D3

<400> 8619

gggtcgagcc acgcgtccga gaccacgtca agcacgccct caccctcttc acagacttcg 60
tggccgtcct cgtcgcgcgc ctgcgtcatca tgctcaagaa cggggccgac aagtcggagg 120
acaagaagag gaagaagagg tcgtgagcgc gtcgagaagg gaagctcttc cacttccaca 180
tatgcatagg agtaactgct ggggttcctt cctgggggtg aagtgtggaa ctgagctgag 240
tgttcagaag tgttcctttg ttcggcacct ttgttctctt cctctcttga tgagtctgta 300
aatagctatg tcaatctggt taagcttggt ttggttgcct gtgcctgtgt tcgctggcct 360
ttggatagaa tgcaaattaa agatgttgct 390

<210> 8620

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-032-Q1-E1-D5

<400> 8620

ccgggtcgac ccacgcatcc gaccacgcgt ccgcccacgc gtccgcccac gcgtccgcac 60
acggtcgcgg cgcaagcaa tggcgaccac ggcgcgcgtg ctctcgcccc agcgcgcttg 120
ccctacccat ctccggcgcc gcctctcgcc cctacatctc gtattccccc tcgacgcgtc 180

agcgaggcgg ctgcgccttc gccggggcgc gccaccttgt tcggccaagt tcggcaagtt 240
cgacgcctcc gacgctccgg cggaggccga ggaggcggag ggcgcgacgg atggtgggct 300
ggcgcacccc gtggaggagg accatagttg cttggcatct gatttggagg gcgcgattcg 360
gcagtcaggg aacgctagcg cagatttcgt aaactccgga ggcacgag ctatcg 416

<210> 8621
<211> 388
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-032-Q1-E1-D8
<400> 8621

ggggtcgacc cacgcatccg accacgcgtc cgcccacgcg tccgcgacg cgtgggaaaa 60

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaataaaa aaaaaaaaaa aaaaataaaa attaaagggg ggggcccttt aatgttttta 240
aatattttt attttaaatg taatttatat gatttttttt tggtttaaca aaatttaatt 300
tctggggggt ttttttaaaa ttttatgatg ggaaaaacct tgggtttatc caatttttat 360
ccctttaaaa aaaatccctt tttctcaa 388

<210> 8622
<211> 143
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-032-Q1-E1-E1
<400> 8622

acgcgtccga taaaaaaaaa aagaaaatga aaaaacaaca acaaattgat aaaaggagg 60
cggactaac atgatcaaag gcttacgtac gcgttcaatg cgactgcaat atctctcgt 120
ataatgacaa cgtaacttca ctt 143

<210> 8623
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-032-Q1-E1-E10

<400> 8623

gggtccaccc acgcgtccga agctgcaaag gtcactggaa tgcttttgga gatggatcag 60
accgaggtcc tccacctgct cgagtcacct gatgctctca agtccaaggt tgctgaggcg 120
atggatgttc tccgcaatgt ggcccaccag caaaacccaa acctcccgac cagtcagctt 180
gccgcattat cactgaccga aggcattatg tcctaacttg aaggccataa caaactatct 240
tcagtttcca actcagtgcg ggtgtttcca gaggttgtct ggcacatgac agtattgttc 300
cttcgatact atggttggac ttgtgaatgt tgtttccata ctggatgtta ggttttattt 360
gcgccctacg gtgacctgcc gttaaggcaa agaacttatt tgcaagtctg agcactattt 420
tgggggggttg ggttggg 437

<210> 8624

<211> 401

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB189-032-Q1-E1-E2

<400> 8624

gggtccaccc acgcgtccga ctccagtagc aattacgaca caccaagcgt cggcaccaat 60
ggcttactac caggaggtgg actactgtct ggaggangtg aggtcgggtg ccccggccgg 120
cttcggccgc cacggaggcg gcgtccagca gcacgtcgtc aaggagaagt tcgaggaggt 180
cgacacggtc tcacgcgccg gcgccaacca ccaccaccac caccatggtc accacggcgg 240
ccacggcttc gtggtgcgcg agaccagggt cgaggaggac atcaacacct gcaccggcga 300
gggtccacgag cgcagggaga gcttcctcgc cagggctaac tgagccgccc ggcggccggc 360
atccacgccc gttcgtgcct gcctgcgtgc cttatgtatg t 401

<210> 8625

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-032-Q1-E1-E3

<400> 8625

gcgccgagc ctctccaatc atacgcgagc caccacccgc gcgacctcag ggtgcctgtg 60
 cctgctctcg ctgttccttc ctcatggcca gcgcctgcca cctcgccgcg ccgctcggcc 120
 tcgccccgtt gccccgcggc tgcgcctctg ctggcgctcg ggccgctcgc cgggtgcgctc 180
 ggctcgtcagg ctccaagata ccgacaggcg ttgctgtcac ggcgacgtcc ggcgggtcatg 240
 gcgccacgga cgagggtgcc ggaattgttc aggctgtgca ggacgcatgt gaaatagttg 300
 aggacaagta tcctgtggac agcatccgtg tccctgccat cgtcgcgctc tggacgggat 360
 tatgtgccat caaggccatc gactagcttc ctcgtctgcc tggtgtc 407

<210> 8626

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-032-Q1-E1-E6

<400> 8626

aaaatccaat ccagagttct caatacttgt ctcgtgagtt tgtccgctaa catattcacc 60
 ttcttgatcc ttaacatatt tggcatgtgg cttacaagca caattgcata tttcctttac 120
 atttgacag tactcataca gacatacaca atgtatctgc acggcaaatg gtcaggtagc 180
 agggcaagct aagctaacaa tcgcctcact tgtttccgag tccgaacaag gacttgatgg 240
 cgttgatggc gttctcgttg atgaacgact cgtcgtagtt cttcagcaag ggctcgaact 300
 cctccgactt cctcaggttc gcgagatccg ggtcgggtgcg aactgccttg aagtcttcat 360
 accctgactt gagcgcatc 379

<210> 8627

<211> 362

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB189-032-Q1-E1-E7

<400> 8627

ggagcgaaag aataacaaac attggtaccc aagattgttt gctttcacia cgttacaaca 60
 tatatatcat atatgcatgg acaggtacaa tgcctctcca gcagcaccag caacaagggt 120

ggttagcagc agggactata aacaacagag taccatccgc gttgatagat ttttattact 180
gcaaaattga tccccgcagc actaccggta gttgcggtag acgggagtgt acatgcagtt 240
ctctgcatat ttcaccaggt cgctgggggg aggcagacgg gtcgccagac cgagctcgta 300
ggcttttgca gccacggctg cancgatgtg cgcaaagatc tttctgatgc tggatgaagg 360
tg 362

<210> 8628
<211> 419
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-032-Q1-E1-F1
<400> 8628

gggtcgagcc acgcgtccga ggacacgtgg ggctaccctt ggacgcata ttaatgttat 60
cggtgagccg attgatgaga agggtgatat aacgacaaac cacttcctcc ctatccatcg 120
tgaagcccct gctttcgttg agcaggccac tgagcagcaa attcttgta ctggaatcaa 180
ggtcgtggat cttcttgac cctaccaaag aggtggaaaa attggtctct tcggtggtgc 240
aggagtgggt aaaactgtgc tcattatgga gctgatcaac aatgttgcta aggcccatgg 300
tggtttctct gtgtttgctg gtgttgaga acgtaccgt gaagggaatg acctgtacag 360
agaaatgatt gaaagtgggt tcattaagct aggtgacaag cagagtgaag gcaagtgtg 419

<210> 8629
<211> 303
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-032-Q1-E1-F10
<400> 8629

cgggtccacc cacgcgtccg agactcggta ctcggcacgg atggcgatgg ggacggaatg 60
gccgccgaca cctgcgcagc agccgaaacc ggtggtgagc gccgtgtcgg tctgaagct 120
ggtactgttc ctgattctcg ccggccttcc actgcggctg ctggtggggc cccagccta 180
gctcctgccg tacaccgtcg cgccaaacgg ggccgcacat cttttcgcgg ttccgggtcat 240
ggaaacaacc accggcagtc gcggccgccg gataccttcc cttaaaacct ctgatgccgt 300

ttt

303

<210> 8630
 <211> 402
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB189-032-Q1-E1-F12

 <400> 8630

attcncgggt ccaccacgc gtcgggttct cttcatatg gtggataatt ggatttttatt 60
 ggatatcagc tgggggtgag gaggttattc aggatgcacc tcaactttac tggctttgca 120
 tagtctttct ggcatttgat gtgttttttg ttgtattctg tgttgcctctg gcttgtatta 180
 ttggtattgc tgtctgttgt tgccttctct gtatcatagc aattctctat gcagtatctg 240
 atcaggaagg agcatctgaa gatgacattc gtcaaattcc aagatacaaa tttcggcgga 300
 cggatgagcc tgagaagcaa gatgttgacc ccatgggtcc ttttgggtgga ataattgatag 360
 agtgtggcac caatcaacct attgagaaag tgcttgcagc tg 402

<210> 8631
 <211> 460
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-032-Q1-E1-F3

 <400> 8631

gggtcgagcc acgcgtccga acacgcgtcc gagcttcttc agcaacaaac aacacaatcg 60
 aaagtctcaa aagcttttccg aaagccaact ctacgcgaac gccaaatcaa caaacacctc 120
 ccgccaatac caagcgacat cagcccgcgg agcgtcttta cgaaaacaac taaaccaata 180
 ccactaccaa ctaagcaata atgggtctca tgtggactaa aggcttcggc ggaaagcacg 240
 ctggcggtgg agtcatcatc gacaagcacg gcgctcgccg cgctcctttc aggttctcct 300
 tcaagggcct gaactgcttc aagtaacta cccaagttcc tacgattatc agcacacggg 360
 aacagcgacg gaattctact ttcggttctc gactgccttc aagtgttttc acctttgttc 420
 tttttttttc acgactcgac ctacctgttc ccaagggggg 460

<210> 8632
 <211> 429
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB189-032-Q1-E1-F5

<400> 8632

```
attcncgggt cgaccacgc atccgattgg gactgggccc cccggccgag aggaataaac 60
tcactcctgt cttcatagct atccatagcc ggcaggcgcc agtacctgta tgtgggtttta 120
gctatacgcg acctcagttc gggcgcaagc tacaaccccg accaggcgag aagaagcatc 180
gatagtgtga cgagctaacc caccaccagc aacgtaatcc aaatccatgg acaaccagcc 240
gctgccttac tccacaggcc agccccctgc ccccgaggga gccccggtgg cgggcatgcc 300
tggcgcggcc ggcctccac ccgtgccgca ccaccactg ctccagcagc agcaggccca 360
gctgcaggcg ttctgggctg accagcgcca ggaggccgag cgcgcgctcg cgtcggactt 420
caagaacca 429
```

<210> 8633
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-032-Q1-E1-F6

<400> 8633

```
gggtcgaccc acgcatccga ccacgcgtcc gggcacaacc gaagccaccg cttctagttc 60
tcgggttcat cgccagcaat ccagaccaca taatgggaca gccggtgacg aggaggaggg 120
agagggacgc ggaggcgag ctggacctgc cgccgggggt cgggttcac cccacagacg 180
acgagctggt ggagcactac ctgtgccgca aggcggcggg gcagcgctc cccgtgccca 240
tcatcgccga ggtggacctg tacaggttcg acccgtggga cctgccggag cgcgcgctct 300
tcgggacccg cgagtggtag ttcttcacgc ccagggaccg caagtacccc aacggctccc 360
gccccaaacc cgccgcgggc gacgggtact ggaaggccac cggcgccgac aagcccgtcg 420
cgccgcgcgc cgccgcccgc 440
```

<210> 8634

<211> 404
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB189-032-Q1-E1-G2

<400> 8634

gggtcgacgc acgcgtccgc acacgacgtc cgcccacgcg tccgcggacg cgtgggcgga 60
cgcggtggggc actttcacgc tcagctccag caatggctgc ctccaccatg gcgatctcct 120
ccacggcgat ggccggcacc cccatcaagg tgggctcctt cggcgagggc cgcataacca 180
tgcgcaagac cgtgggcaag cccaaggtgg cggcgctccg cagccccctgg tacggccccg 240
accgcgtcaa gtacctcggc cccttctccg gcgagcccc gagctacctc accggcgagt 300
tccccggcga ctacggctgg gacaccgcg ggctgtccgc cgancccgta gaccttcgcc 360
aagaaccgcg agctggaggt gattcactcc cgctgggcca tgct 404

<210> 8635
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-032-Q1-E1-G5

<400> 8635

accacgcat ccgagtacgc atccgctcct cgcaacgcaa gggctccaca gaaaggctat 60
gatcgatccc cacaggtgac agctgagtat gctttatgct acatgcaatt taactggacg 120
gcacaaccac aatgatgcgg gggctctccg ctgtactcgg acacagtcgc caggagcgac 180
acctcacgag atcaatcagg cgcagatata accacatatt ccatcgccac ctgcttcccc 240
agcacttcaa cattcagcta ttgatgtatc tggacatcat agcttaccac atccactggg 300
tcccatcagt tcaggacatc tcgtcatagc actagattta gttacgccag ggacgatccc 360
tgctgacttc ccccatggca ttct 384

<210> 8636
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-032-Q1-E1-G9

<400> 8636

ttccgggtcc acccacggt ccgagacgta cgtacgtacg tagatcgatc catcgatcgc 60
tagctagctg acgaccatgg cgtccctctc ctctgccgcc atcaccgccc ctctcttcac 120
ggccgcgccc gctcgcgcag tggtcagcag gaggtccttc accgtgcgtg cctctctccg 180
caaggccact gctaccgccc cgtggccgt tgccgccagc gtcctgcttg cgggcggcag 240
cgccatggcc catgaggtgc tgctggggcg atgcgacggt gggctcgtct tcgatcccag 300
ccagttcatc gtcaaggccg ggcacaccat caccttcatg aataacgccg gcttcgcgca 360
caacgtcgtg t 371

<210> 8637

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-032-Q1-E1-H10

<400> 8637

ttcccgggtc caccacgcg tccgaggacg cgtgggggtac ggcaggaaga agcacgcaa 60
gagcgagggc gggcgggcgg cggcggccac ggacaagcag cggttcaaga cgctgccggc 120
gtcggaggcg ctgccgccc gccaggccat cggcgggtac atcttcgtct gcaacaacga 180
caccatggac gagaacctca ggaggagct gtccgggctg ccgtccaggt acagggactc 240
ggcgcgggct atccgcccgg gactgcccct ctctctctac aactactcca cgcaccagct 300
ccacggcatc ttcgaggtac agtacagcac agcacagcac agtagccact agccagttcg 360
tggttccctt tccttgcttc ttcttcgttc gctgtccttg cttcttcttc gtccgct 417

<210> 8638

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-032-Q1-E1-H12

<400> 8638

cacgcgtccg aacacgcgtc cgggcgctgc cgaggacga cagggagcgg atcaacatcg 60
agcagcactg cctggcccgg gagatcgtga acctggtggc ctgcgagggc gaggagcggg 120

tggagcggca cgaggtgttc ggcaagtgga aggcgcggct gatgatggcc gggttcagcc 180
 cgtccccgct cagcgcgctg gtgaacgcca ccatcaagac gctgctgcag agctactcgc 240
 cggactacaa gctcgcgag agggacggcg tgctctacct cggctggaag aacaggcccc 300
 tgatcgtctc atcggcatgg cactagtgtt gacttcagag aatgttgacc tgatggagaa 360
 tgtttcttgt aaccttcgaa gtacctctta gtggtttaga tatgtttggc t 411

<210> 8639
 <211> 430
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-032-Q1-E1-H3

<400> 8639
 cgggtcgagc cacgcgtccg acaccaagag ggagttcctg gctcaagaag gggctcaatt 60
 gtttcacttc ccggtggtgg cgatgttctt gagggtagtg agtttgtaca tgctgctgct 120
 ttagtaagtc agtcagcact tttctcaaag ggtcttgctg aaccacgcat gtcagatgct 180
 gccatggttc acccatctga ggtagctgcc aaagggtcac gttggaaaga tttgtttgaa 240
 cctggagtga ggcgtgccct gtagtcggt gttggaattc agatccttca acagtttgct 300
 ggaataaacg gtgttctgta ctatacccca caaattcttg agcaagctgg tgtggcagtt 360
 attctttcca aatttggctc cagctcggca tcagcatcca tcttgatcag ttctcccact 420
 accttactaa 430

<210> 8640
 <211> 404
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB189-032-Q1-E1-H8

<400> 8640
 acgcgtccga aaacgcggca gacccaagc accaggtggc ctcggcggcc gcgggtaacc 60
 agggttgtcg gaaagaacag cgttgatcgc ggggaacaca ggggcgcaca aaaaaaccgg 120
 cgaccctttc ccaaaaaagg tttggtatga catcaaggca ccgtccgtgt tcagtgtgcg 180

caacatcggg aagactctcg tatccaggac acaggggtacc aggattgctt ctgaggggtct 240
gaagcacaga gtctttgagg tttgcctagc tgatcttcag ggcgacgagg atcannctta 300
caggaaaatc aggctccgtg ctgaagatgt gcagggcang aatgtgctca caaacttttg 360
gggcatgaat tttaccactg ataaactcag atccctagtg aaga 404

<210> 8641
<211> 410
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-032-Q1-E1-H9
<400> 8641

ttcccgggtc caccacgcg tccgaggacg cgtgggaacc gtgctctagt tgaggagcgt 60

gaactgttaa gcagggaaat acaagctgga aaagatgagg tccgccactt gaatgtgatc 120
attgctgaca ttaacactga gaaagaagct tatatcagta agcttatgga caagaggagg 180
aagcttgaag ctgaacttgg agcaagtgg cacttgtgtg atgaggtcag gcactctcgt 240
ggtgaaattg acaagctcgt taccgctcgg aaagaactat ctgcagaggc tgcactcttc 300
gtggaagagc tgaacaggga gcaatctgtt aaacagcagc tacctgtgct gaaaacagaa 360
attgatggtc tgcaacagga acttgttcac gtgaggactg cttgcgggtt 410

<210> 8642
<211> 269
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-033-Q1-E1-A4
<400> 8642

cacgcgtcca aatcatatcc tacgctgact tctaccagct tgatggaatc atggcagtcg 60
aggtaaccgg cggacctgat gtccccttcc accctgggag gcacgacaag cctgagcctc 120
gaccggaagg ccgccttcct gatgccaccc aggggtgggtg atcacctcat gcacgttttc 180
tccacacaca tgggtttgag ccaccatcac attgttgccg tttctgggtg tcacaccctg 240
cgaatattcc acaaggacag gtctggatt 269

<210> 8643

<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-033-Q1-E1-B3

<400> 8643

acgcgtccga gcgaaacgac gcacgctgac gctccttgt tcagagtcct actcccgccg 60
cctatagagg cctcgtcctc cccctcccg cgaaaaccga ttcccgatt cctccggcg 120
tgtccgtggt cccttactgc aagcaaggac acgggggggc tatcgagctc cgttctgaag 180
cggcaagaaa gatgattaat cttttcaaaa taaagggtca aaagaaataa tacgcaccaa 240
gtgctgctgg aaaggcccct gttaagaaac aatctgctgg ggagctccgt cttcataaag 300
atattagtga gctcattctt ttttttacca cattaatttc ttttcccaat ggcaa 355

<210> 8644
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-033-Q1-E1-B6

<400> 8644

gtcgaccac gaatccagcc agaggctcct cctactctcg ctccaacgaa ggtcacagcg 60
cctgagggtc ttctgcctgc gaagcagatg ctgtttcaaa aaccacagca tctctcgccg 120
cctcgatcga gtgtccctgg catcttgag tctggggcgg tcccatgag cgcctcatct 180
agctctaacc ttgactcccc agctccaaaa tcttcgggtc cgttagctgt tcctcctgta 240
agccaggctc cgccagcaac actgatcgcc actacaactg cagcagcaat aatgcctaga 300
gctgtccctc aagctaggat ttgcttcctt tgctcgattc ttggagaaaa agaaggaaag 360
ggtgacaact gccccgcctt acccatcagc ccaagaccca ct 402

<210> 8645
<211> 299
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-033-Q1-E1-B7

<400> 8645

cccacgcatc caacacaaat aatgcttggt tgtggacaga aacaaacagg gtcattttctg 60
gatgctgctg ctccaatgg tctttttgga cttggaatac atgaggtttc agttccaagg 120
gtctggagct cataaagggt tgacatctaa ggggggtggc tatgtgcttt ggtcgtgatg 180
gtattgggcc aatcagcttt ggagaccaat atatctcaca ccactaatac acacctcttg 240
acatcaactg acaacatccc acatagcca tcactatatg cgggattact gttggaaat 299

<210> 8646
<211> 318
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-033-Q1-E1-B8
<400> 8646

gaccacgaa tccaccacg cgtccgcaa aagtactgtg acatggacag cattaatttc 60
tggttatgcc caagataatc aggtcgaacc atgtctccat ttatttgac tgatgaggca 120
gtctgtgtgc aagccaaatg acaccacatt tggagggatc ttgattgtct gcacaaatca 180
tccattcctt gtccttgga aaattttgca accccaacaa ttaaaaatgg gttttgggtc 240
caacttcaat ttttcaattc cattgacacc attttatcca aattccggaa caatgtgtaa 300
acccaactg tttttttt 318

<210> 8647
<211> 328
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-033-Q1-E1-C1
<400> 8647

acgcgtccaa ccacacgtcc ggggtgcacc gtcctgacct caagtgcaga tacgcgcacc 60
ctcacaactc cgtttccatc gacctggaca ataagggtgac tgcgtgtgcg gattctctga 120
ggaacaattg cttccggggg atgacatgcc ggggagagga tccgcctcca catatccagg 180
agcaattact gagatcagtt ggcgtggaag acccaaaggt gaagacgatc tgcagagatt 240
ttacacgtgg gaagtgttca cgatcagcaa atgactgccg attcttgac cattcatctg 300
ttgaagatgt tgcaattggt tttcaaga 328

<210> 8648
 <211> 201
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-033-Q1-E1-C11

 <400> 8648

 cccacgcatc cgaagacacg tgggcaactc catccaagac gaacgaatac atcccactaa 60
 tcctttttct tttcttttcg tttttatttt taatttcttg gttcggttct tgatcaccgg 120
 ttcgggctta ggaccttata catgaattta tattggcagg tacattttgt ctaaggatct 180
 acacgcagga ggatggctct c 201

<210> 8649
 <211> 370
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-033-Q1-E1-C7

 <400> 8649

 cccacgcatc caaggacgcg tgggcaacgg tggcactgct cattaagatg aacatgatgt 60
 gcatagttgc atactttgat catggaacga tggctgaaga aaccaccttg ctggcaaagt 120
 cgtggggaag aatgaagga accaatggca tggaggatgg aagaaagctg atggacaata 180
 gtattggttc aaaccgtgag tattcaatcg atgatatgtc tcatccaaag gcaccacata 240
 ctgagctcaa gcaaccctca tacttagctc ctggttgctc aagcaaccct ctcaagcaac 300
 cctcaaactt agctcttttt tgcattcccc aaagttcaag catacatata tagccttcca 360
 ctcatcatat 370

<210> 8650
 <211> 331
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-033-Q1-E1-E1

 <400> 8650

 acgcgtccaa gggaatttcc atacaaatcg aaggccattc tattgtttca aaagatcgaa 60

ggtgtggatg tttgcctctt tgccatgtat gtacaagagt atggctcaga ttgcccacca 120
 ggaggtcaaa gacatgttta tcttgcatat agggaggggtg tcaaatactt ccggcctgaa 180
 atcaaactctg caactggaga agctctccgc acctttgtgt atcatgaaat tttgattgggt 240
 tatctggact actgcaagaa acgaggggtt gtaagctgtt caatatgggc ttgcccattct 300
 acgaaacgag atgattatct tttatattgc c 331

<210> 8651
 <211> 298
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-033-Q1-E1-G1
 <400> 8651

acgcgtccac tcaatatgggt agtggttagtg caaattatta tagagtgcgc tccaccaggc 60
 catacaggcc catcactcta cctcctggac ctggtgcttt gaatgggtcca agtgcgagcagg 120
 catcggcaag atcaaggctc tattctggag atgcgggtgc ggctgtctcc cgatcatcag 180
 ataagaaggg atcgtcttac aagtattctt tgtccagtat gtcaacttat gatcgtaaat 240
 gaggatttgt tttatctgcc aatggacgaa cctagtgaac cttgaaagtt tgggtttc 298

<210> 8652
 <211> 156
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-033-Q1-E1-G3
 <400> 8652

cgggtcgagc cacgcgtcca accaaacgtc cgggggctgt tctcctgtc gcaaccgcac 60
 cagggcatcg acggcgagtg gagcgacaag agcgggggtca tcgtgtaccg ctggaacgac 120
 gaggggagcc gggccaggac acgccgcgct aactgg 156

<210> 8653
 <211> 369
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB189-033-Q1-E1-H2

<400> 8653

cgcggtccacc caagcggtccg cccacgcgtc cgatcagaag atgcaaagaa acttcctttc 60

atattggtta taaatttgca ggtgccagca aaaccaaatt ataacttggg tatgtacgag 120

gcggcacaca gaccantgaa caaagattcg gtggggggta cattcattga tggaactgat 180

gcataccgag atgccagatt taaacttata ccaagcattg ttgacgggta ttggatgggt 240

aagcgtgctg tatgaacaaa agcttgccct ctgggcaaag cactaacgtg caattatctt 300

cgccaggata attttcttga gatagatggt gacatccgtt catcatccgt ttcccggagc 360

attattggt 369

<210> 8654

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-033-Q1-E1-H3

<400> 8654

cacgcgtcca accaaacgtc cggcggcagc aaagcaacac gcgacctcaa tctcctcgc 60

ccctccggcc tctcctcccc tccctgcacc cgcacctgcg gagagcgccg caagctagct 120

ggggaggagc gagacagtag caggaggagg acgggagggg ggaagagatg gcgggctgtg 180

atggagccaa gtcgtcggcg tccatggagg aagaggcatg cgcggagAAC aagtacggag 240

ggatggcacc caagaagccc ttgatattca aggaccacga gcgcgcctac ttcgattctg 300

cggactgggt gctgggcatt ttttttctct aacagc 336

<210> 8655

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-034-Q1-E1-A11

<400> 8655

tccgggtgcc cccacgcgtc agccatcgcg tccgactcct tccctgcct ctcactccaa 60

atccctcctc caccaccgct tccctccgct caccctctc gtcgtcgct cagaggcgga 120

ccagcggcgg accctcgggg gcgcaaccat ggggctcttc actgtgacgg ggaaggccac 180

cacgcccttc gacggccaga agcccgccac ctccggcctc cgcaagaagg ttactgtatt 240
 ccagcatccc cattatctgc agaactttgt ccaatcaaca ttcaatgcc ttctgtgga 300
 tcaagtaaga ggtgcaacaa ttgtgtctc tgggtgatttt ttctatttct caaaagatgc 360
 tggtcagatc ataacaaaaa tggctgctgc caatggagta acacgtgttt gggttggaca 420
 aaacaatct 429

<210> 8656
 <211> 438
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-034-Q1-E1-A12

<400> 8656
 cacgcgtccg cgaaccatta gctttatcta ctccagagcg cagaagaacc cgatcgacac 60
 catgagggtg ttgctcgttg cctcgtctc cctggctctc gctgcgagcg ccacctccac 120
 gcatggaggc ggcagctgcg gctgccagcc accgccgggg gtcatctac cgccgccggt 180
 gcatctgcca cctccggttc acctgccacc tctgtgcat ctcccaccgc cggteccact 240
 gccgccgccg gtccacctgc caccgccggt ccatgtgccg ccgccggttc atctgccgcc 300
 gccaccatgc cactacccta ctcatTTTTT tgggctcag cctcatcccc agccacaccc 360
 atgcccgtgc caacagccgc atccaagccc gtgccagctg caaggaaccc tcggcggttg 420
 cagcaccg atcctggg 438

<210> 8657
 <211> 448
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB189-034-Q1-E1-B10

<400> 8657
 tcccgggtgg cccacgcgt ccgtacgaa accacctccc gcggggagcg cgcctacgaa 60
 atcttctcgc gcctgtgaa ggagcgcac gtctgcatca acgggcccac cgccgacgac 120
 acggcctcgc ttgtcgtcgg agagctgctc ttctcgagt ccgagaaccc gagggcggag 180
 cccgtccacc tctatatcaa ctccccggg ggtgtcgtca ccgcggggct cgccatctac 240

gacaccatgc agtacatccg ctgccccgtc accacgctct gcatcggcca ggcggcctcc 300
atgggctcgc tctctctcgc ggctggggcg ccgggtgaga ttttttttct gcccaacgcc 360
agggtcatga tccaccagcc ctcgggcggc gtcaggggc aggccactga catcgccatc 420
catgccaagg agattctcaa gctgcgcg 448

<210> 8658
<211> 449
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-034-Q1-E1-B12
<400> 8658

tcccggttg cccacgcgt ccgctatgaa cagacatcga ccatccattt gcaccgaaca 60
atcaatcaga ttaaaagtct aggagcaaag gcaggagtgt ttttgaatcc agcgactcca 120
ctcactgcaa ttgattagg gcttgatgtt gttgacctgg tgctgattag gggggtgaat 180
cctgcgtttg gtggccagag ctttatcgag agtcaagtaa agaaaattgc agaactgaga 240
aggttatgtg cagagaagg agtgaacccc tggattgagg ttgatggtgg tgttggtccg 300
aaaaatgcct acaaggttat tgaagctggc gcaaattcta ttttctcagg ttctgcagtt 360
tttggggctc cagactacgc tgaagctatc aaatggaata agaccatcca aagacctcta 420
gctgtagccg cataaacaac ttgacgtgt 449

<210> 8659
<211> 396
<212> DNA
<213> Zea mays
<223> Clone ID: LIB189-034-Q1-E1-C10
<400> 8659

cacgcgtcca ccaaaacgtc cgcccacgcg tccggattct ctaaaaaaga ttgatccatc 60
attggggagt caccgtaagt ccaaggtcct tacagatgaa tgtgcaaag gatcatctca 120
aatgagagga tgttcaagt gcaaggtgcc aaatgaagg agtagccctc aagtctcatc 180
agaagttgcc tgtgatgaaa atgctatact gaaggttatg gaattccttg cgttgccaaag 240
ggcggacgcc atccaactcc tcatgcagta caatggaaat gcagaagcag tcatccaaca 300

gatcttccaa tagtgcttac tgtatttttt ttactagtct gcttgctttc aaacgtaatt 360
atttggtgat acttttcttg ccctgtacag aacatt 396

<210> 8660
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-034-Q1-E1-C11

<400> 8660

cacgcgtccg ccaacgcgtc cgccaacca ctagctcaaa accctaaaga tctcgctgc 60
tcgcctccgc cgccagagcg agtccccat cttcatccgt caaccatggc gacccagatc 120
agcaggggga agaagttcgt cagcgacggt gttttcgggg cggagctcaa tgagatgctg 180
acgcgggagc tggcggagga cggctactct ggcgtggagg tgcgcgtcac gccgatgcgc 240
acggagatca tcatccgcgc cacgcgcacg cagaacgtgc tcggcgagaa gggccgtacg 300
atcagggagc tcacctccgt cgtctttttt tatgttcaac ttccctgaga atggcggttg 360
gctttatgcc gagaaggctc tcaaccgtgg gctctgtgcc atcgcgcaag cccaattcct 420
ccgttaciaa 429

<210> 8661
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB189-034-Q1-E1-D11

<400> 8661

cacgcgtccg ctactgcacc tgctggacgg cttccgcggc tccggcacag ggttcgagcc 60
ccgcgggagg gaccccgcg cgggtgaacaa gtccaccgac ttccctccggg aggaccacat 120
ggtgcggcgc gtgtggtacc aggcggagaa caagggcggg gtgaggacgg aggacggccg 180
gtgggtgctg ccgccgcggc agaggggtgt cgacgaccac ccggaggaca ctgaccatca 240
cctccagcgg ctcggtctca ccgcgtgaag ctcagcaata ctctgatagt agcgттаact 300
actgcgtgtg gcgttcgct acttgttttt tgcagtcggt tcacctgttg ccgcgcgcgg 360
cagctcagtg gcgccttcat gccgtgcatg atgcc 395

<210> 8662
 <211> 400
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-034-Q1-E1-F11

 <400> 8662

```

tcccgggtgg cccacgcgt ccagcagcgg ccgtttgcct cgatgaggtc ctctgggtta 60
ccagcctcgt gcacgccttc cagtgggccc tgcctgacgg cgcggcggcc gtttgcctcg 120
acgaggtcct caagctcggg gtggagatga agacgccgct cgtcaccgca gggggccccc 180
gcaccgcctg atccgtcctg ccgccgacgc gtcacgtcac gcgttgtttg catggatgat 240
ggatatcttg tctgtctgtg tggctcttcg taaagtttgc ttcttctcga tcgtcgggtc 300
gttcgtgcct ccaccttagc ctagggtttg gtttcttttt ttgtactgag tgtgtcatag 360
tctcaccatc accggggctc caattttgga aaactgcgtg 400
  
```

<210> 8663
 <211> 411
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB189-034-Q1-E1-G11

 <400> 8663

```

ccgggtggcc ccacgcgtcc acgaacgcgt gggcggaacgc gtgggcggac gcgtgggaga 60
acgcgtgggc ggacgcgtgg gtgaaggaga agaagatgct cctatcggag ctatgccagg 120
gtgctatagg cttgggtgga ggcacgggct gcttgacgag gtttacaggg gcgcgcgatg 180
ttggtgttaa tagttttgtt ctctttccta aagtccccga tgcattgaag tctccaacag 240
gagatgaagc gtacaacgat aatggtctgg ttccacgtac aatccgcttg ctcaaggaca 300
agttccctga tattgttatc tacacagacg tctctttttt ttcttagtca tctgatggtc 360
actatggtat tgttacggaa gatggggtaa ttatgaatga tgaaacactt t 411
  
```

<210> 8664
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB189-034-Q1-E1-G4

<400> 8664

gtccggagga agattgtgct gtttgatagc caagtaggaa gtgataaatg tcatggcatt 60
gaagttactc ctagatggaa tgggtggacac gaatttgtac tcactttagg tgacgctagg 120
aggggtgtga aggttacttg gtcgatgggg gatggacggc tttaaattggg ttcgcctggt 180
cgttgttaag catcatcggg ggaagtgtag tagtgctctt gctctgggtt gttgtctgag 240
gctgttggag tctagataag tataacagtg ttcacactat catgcccgtc ctgttattta 300
gtgaacctta atttgtctat atgttgctac tcttggttatt tattgaacct tactttattc 360
tagttgcatt ggaaaa 376

<210> 8665

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-034-Q1-E1-H11

<400> 8665

gtaccggtca gtacttcccg ggtggcccca cgcgtcaaat aaatcagtcc cagcagcgca 60
agcacgcagc ccccaacaca cgcctcttct cttcatcgct ctggccacag ggcattgctg 120
caggcatgcc tgcgacgtcg atgagctatt ggcaggggct tacgagttag gactcttcat 180
tctgatgggt gacagatcgt tgtccttaag aatgggtgtct acggcatcaa aggcataata 240
taggtaggca acatttcttt ttttcttct gacagctgtg tatttatgat gctattgggt 300
atgcttgata aaatagtgga accctaaacc ccaaaaaacc ctaaaccctt attgtctgtt 360
tttgagctaa tgtcacacat ttggtacaag aaattctgta aataaaattg cgaaatatgg 420
caac 424

<210> 8666

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB189-034-Q1-E1-H9

<400> 8666

cccgggtggc cccacgcgtc caccaccgcg tccgggcgag gtgaccagcg gagggttcaa 60
 cacgtgcctg aagaagaaca tcgctatggg ctacgtgaag tccgggaatgc acaaggctgg 120
 gacggagtgt aaggtggggg gtcgcgggaa gtcctacgac gccgtggtca gggggatgcc 180
 gttcgtgccc accaagtact acaagccctc gtacattata ttcttgatac gagggacgcc 240
 ttgcgtttct cttttgtcgt tgcggcttgt tcttggcaga ttggttaagc attgcaactg 300
 taacttctgt gagattgtct tacggttcac atttcatttt tttctgccta ataagccttc 360
 ttttccaaa tacaagcat gcatg 385

<210> 8667
 <211> 398
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-012-Q1-K1-B7
 <400> 8667

cccacgcgtc cggaagaacg aacctgagtt tgctaagaag ctaacttctg tcgctgaggt 60
 ttatgtgaat gatgcgtttg ggcacgggac acagagctca tgcttcaacc gaaggagtta 120
 ccaagttttt gaaacctgct gttgctggct tctcatgca gaaagaactt gactaccttt 180
 gttggagctg ttgccaaccc aaagaagcca ttgcccgtta ttggttggtg atccaaggctc 240
 tcaagtaaga ttggtgtcat tgagtcgttg ctggcaaagg tcgatatact catccttggt 300
 ggtggtatga tctacacatt ttacaaggca caaggatatt ctggtggaaa atctctcgtg 360
 gaagaggata aacttgagct cgcaacttct cttattga 398

<210> 8668
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-041-Q1-K1-D2
 <400> 8668

cccacgcgtc cggtcattga gtcgttgctg tcgaaggctc atatactcat ccttggtggt 60
 gggatgatct acacatttta caaggcacag ggatattctg ttggaaaatc tctcgtggaa 120
 gaggataaac tcgagctcgc aacttctctt attgagaagg cgaaggcaaa gggggtttct 180

cttttgcttc ccaactgatat tgtagtagcg gacaagtttg cagccgatgc tgagagcaag 240
attgtccctg ccaactgctat ccctgatgac tggatgggtc ttgatgttgg ccctgatgcc 300
acaaaaacat tcgacgaagc attggacacc accaagactg ttatttggaa cggcccatg 360
ggagtgtttg agttccagaa gtttgcagct ggcaccgagg cgattgccaa gaagctagct 420
gagcttac 428

<210> 8669
<211> 377
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3059-022-Q1-K1-C10

<400> 8669
aaatctctcg tggaagagga taaacttgag ctcgcaactt ctcttattga gaaggcgaag 60
gcaaaggggg tttctctttt gcttccact gatattgtag tagcggacaa gtttgcagct 120
gatgctgaga gcaagattgt ccctgccact gctatccctg atgactggat gggctctgat 180
gttggccctg atgccaccaa aacattcaac gaagcattgg acaccaccaa gactgttatt 240
tggaacggcc ccatgggagt gtttgagtgc gagaagtttg cagctggcac tgangcgatt 300
gccaagaagc tagctgagct tacaaccacg aanggtgtca ctaccatcat ncgcggcggc 360
gattctgtcg ctgctgt 377

<210> 8670
<211> 414
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-027-Q1-K1-C7

<400> 8670
gaaaatcttt cgtggacgag gataaacttg agctcgcaac ttctcttatt gagaagggga 60
atgcacaggg ggcttctctt ttgcttccca ctgatattgt agtagcggac aagtttgcag 120
ctgatgctga gagcaagatt gtccctgccca ctgctatccc tgatgactgg atgggtctcg 180
atgttgcccc tgattccacc aaaacattca acgaatcatt ggacaccacc aagactgtta 240

tttgaacg ccccatggga gtgtttgagt tgcagaagtt tgcaactggc actgaggcga 300
 ttgccaagaa gctagctgag cttacaacca cgaagggtgt cactaccatc atcggtgcc 360
 acgactctgt tgctgctgtc tagaaagcta ggctgtccga caagatgaac caca 414

<210> 8671
 <211> 210
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-004-Q1-K1-C3
 <400> 8671

gaagctgcac tcaattgaag gtggttccaa taagttgtca tatgtcttat caggggctcc 60
 aaactcatga tgtataattt tacagtgtac catctgctat ttcattgatct ttgctactaa 120
 aacaggatga tccatttcct caagttcttc aactggctgt attttaaaag tataaaagct 180
 ttgtggcttt cgcattgaaa gtgatgtgta 210

<210> 8672
 <211> 425
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-047-Q1-K1-A8
 <400> 8672

catcccgctg catcccatcc cactaccacc catctcgctg tccgccgatt cgatccggtt 60
 cttccaaccc aagggcagtg atggcgacga agaggagcgt gggcacctc ggcgaggcgg 120
 atctgaaggg gaagaaggtg ttcgtgcgcg ccgacctcaa cgtcccgctc gacgatgccc 180
 agaagatcac cgacgacacc cgcattccgc cctccgtccc caccatcaag ttctctctcg 240
 agaagggcgc caaggtcatc ctgcgcagcc acctgggtcg tccaaagggt gtcaccccaa 300
 agtacagctt gaagcctctt gtccacgct tgtctgagct ccttggagtt gaagtcgtga 360
 tggccaatga ttgcattggt gaggaagttg agaaattggc tgccgctttg ccggaaggtg 420
 gagtt 425

<210> 8673
 <211> 390
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-A12

<400> 8673

cccacgcgtt cgccacgcg ttcgcggacg cgtgggtgat tattggtttt gtcacataat 60
acgacactag caatgcatac agtcttggtc aagacgttgc agattcctgc agaactggtg 120
ctgccactaa tgtcattttg ggtcttgctc ttggatacaa tgacaatgct ggtggtattg 180
ctgagaactg atgctgttga tgctgctggc aacaccactg ccgctattgg aaagggattt 240
gccattgggt cagctgctct tgtgtctctg gcgctttttt ggtgcctttg tcagcagagc 300
tggagtcaag gttgtccatg tactcttccc caaggttttc attggtttga ttgttgagc 360
catgcttgcc tattggatct atggcatgac 390

<210> 8674

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-G7

<400> 8674

gattcctgca gaactggagc tgccactaat gtcatttttg ggcttgctct gggggacaga 60
tcagtcatta tcccaatttt tgctattgcg tttagtatct tccttagctt cagccttgct 120
gccatgtatg gtgttgctgt ggctgctctt ggaatgctga gtaccattgc cacaggcctt 180
gctattgatg cctatggccc tatcagtgat aatgctggag gcatagctga aatggctggg 240
atgagccata ggattcgtga gagaactgat gctctagatg ctgcaggaaa caccactgct 300
gcaattggaa agggttttgc tattggctct gcagccttgg tatcccttgc actcttcggt 360
gcctttgtaa gccgggctgc tatctccact gttgacgttc tgactcctaa agtattcatt 420
gggcttattg gtggtgctat gctccatac tggttctc 458

<210> 8675

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-G11

<400> 8675

cggacgcgtg ggcggacgcg tgggtgatcc cccaggtgc tcttggtatg ctcacaggac 60
tgatcgttgg gattctatctt ggggttgaga cctctcttgg agtccttgct ggtgcccttg 120
tctctggtgt tcagattgcc atttctgcat ccaacactgg tggtgccctgg gacaacgcca 180
agaagtacat tgaggctgga gtttcagagc atgccaggac ccttgggcca aaagggttctg 240
accctcaciaa ggcggctgtc attggtgaca ccattggaga tctctcaag gacacgtctg 300
gcccttcctt caacatcctc atcaagctta tggcggttga atcccttgct ttcgccccct 360
tcttcgccgc ccatggtggc attctcttca aatggctcta agccagcga 409

<210> 8676

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-E4

<400> 8676

aagagcccag atgagcacc tttcttttcc aaggatctgc ctgagccccg gttgccagg 60
atgcggtacc caaaggtttt gcatccatt gctgattcta tcaatatcaa caaagagatt 120
tggaatatgt attttgatga acttctacca agattggtga aagaaggaag tgatggtaat 180
gctggatcca gtgctctttg tgacacaacc tgcttgagg cactctccag aaggatccac 240
tatgggaagt atgtggcaga cgcctagttt caagagctcc ctgaagctta cacgccagcc 300
ataatagccc aagtctgctt ttgttccaac tattagtatt tctagtacta ctattttcat 360
ttatttttta atctaattcc aaagtttcag aaccaaattg ttt 403

<210> 8677

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-C2

<400> 8677

aaagaattca tattggtaaa tatgttgctg aggtgaagtt caaagacgct cctcaagagt 60
atagtcgact aataaaagaa aaggacagca attctctgat ggatagctg acattcaagg 120

ctgtggaaga gaaggtcaag aagagagtag agaagaaggc taggacgttc gggcagaacg 180
tcaccttgga tgacaatgcc actgctggtg acagcgagtg caaggctgat cccaaagtgc 240
tctccaagct gtatgatcag tgggtgatgc cactgaccaa ggatgtcgaa gtcgagtatc 300
tcttgcgccg cctcgactga tcagtgatca cccgattagc tgtagctgct aactttatgt 360
acgcgtgggt atcagattgc tttgcacatg ctctttatgg cttaa 405

<210> 8678
<211> 441
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-011-Q1-K1-F5
<400> 8678

caccgtgggg cagtacgagt cccacatcgc gttcactctt cctgggctgt accgtgtgat 60
ccatggcatc gatgttttcg atcccaagtt caacattgtc tcccctggag cagacatgag 120
tgtttactac ccgtatacgg aaaccgacaa gagactcact gccttccatc ctgaaatcga 180
ggagctcatc tacagcgacg tcgagaactc cgagcacaag ttcgtgctga aggacaagaa 240
gaagccgatc atcttctcga tggcgcgtct cgaccgcgtg aagaacatga caggcctggt 300
cgagatgtac ggcaagaacg cggcctgag ggagctggcg aacctcgtga tcgttgccgg 360
tgaccacggc aaggagtcca aggacaggga ggagcaagcg gagttcaaga agatgtacag 420
cctcatcgac gagtacaagt t 441

<210> 8679
<211> 421
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-010-Q1-K1-C9
<400> 8679

cccacgcgtc cggaaatcgc gggaagcaag gacaccgtgg ggcagtacga gtcccacatc 60
gcgttcactc ttcctgggct ctaccgtgtc gtccatggca tcgatgtttt cgatcccaag 120
ttcaacattg tctcccctgg agcagacatg agtgtttact acccgtatac ggaaaccgac 180
aagagactca ctgccttcca tctgaaatc gaggagctca tctacagcga cgtcgagaac 240

tccgagcaca agttcgtgct gaaggacaag aagaagccga tcatcttctc gatggcgcggt 300
ctcgaccgcg tgaagaacat gacaggcctg gtcgagatgt acggcaagaa cgcgcgccctg 360
agggagctgg cgaacctcgt gatcgttgcc ggtgaccacg gcaaggagtc caaggacagg 420
g 421

<210> 8680
<211> 418
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-024-Q1-K1-H4
<400> 8680

atctcacagg gcggcctgca gagaatctat gagaagtaca cctggaagct ctactccgag 60
aggctgatga ccctgaccgg cgtgtacggg ttctggaagt acgtgagcaa cctgggagagg 120
cgcgagaccc gccgctacat cgagatgttc tacgccctga agtaccgtag cctggcaagc 180
cagggtccgc tgtccttcga ttagtacggg gaaagaagaa gaagaagaag cccaggccgg 240
agaaccatcg cctgcatttc gatctgtttc accgcaattc gcattgttag tcgtgtattg 300
gagttatgtg tacttggttt ccaagaactt tggttccttc tcgttttttt tccttggttg 360
agcggttttg ggcagcgctg gcctgggtcc tagtatggtg ggaattggct gcaccttt 418

<210> 8681
<211> 383
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-048-Q1-K1-H5
<400> 8681

gagaatggca tcctccgcaa gtggatctct cgttttgatg tctggccata cctggagacg 60
tacgctgagg atgtttccag tgaaataatg aaagaaatgc aggccaagcc tgaccttattc 120
attggcaact acagcgatgg caacctagtc gccactctgc tcgcgacaaa gttgggagtc 180
actcagtgtg ccatcgctca tgccttgagg aaaaccaaact accccaactc ggacatctac 240
ttggacaagt tcgacagcca gtaccacttc tcttgccagt tcacagctga ccttattgcc 300
atgaaccaca ccgatttcat catcaccagc acattccaag aaatcgcggg aagcaaggac 360

accgtggggc agtacgaggt cca

383

<210> 8682

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-E5

<400> 8682

cccacgcgtc cgcaagatct cacagggcgg cctgcagaga atctatgaga agtacaggtg 60

gaagctctac tccgagaggc tgatgacct gaccggcgtg tacgggttct ggaagtacgt 120

gagcaacctg gagaggcgcg agaccgcgcg ctacatcgag atgttctacg ccctgaagta 180

ccgtagcctg gcaagccagg ttccgctgtc cttcgattag tacggggaaa gaaggagaag 240

aagaagaaga agcccaggcc ggagaacat cgctgcatt tcgatctgtt tcaccgcaat 300

tcgcattgtt agtcgtgtat tggagttatg tgtacttggg ttccaagaac tttggttcct 360

tgtttttttt tctttcttgt ttgagcgttt ttgggcagcg ctggcctggg tccatgtatg 420

<210> 8683

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-E7

<400> 8683

cccacgcgtc cgggacaccg tcggccatta cgagtcacac atggcgttca caatgcctgg 60

cctgtaccgc gttgtccacg gcattgatgt gttegacccc aagttcaaca tcgtgtctcc 120

tggcgcggac ctgtccatct acttcccgtg caccgagtcg cacaagaggc tgacctccct 180

tcacccggag attgaggagc tcctgtacag ccaaaccgag aacacggagc acaagttcgt 240

tctgaacgac aggaacaagc caatcatctt ctccatggct cgtctcgacc gtgtgaagaa 300

cttgactggg ctggtggagc tgtacggcgg gaacaagcgg ctgcaggagc tgggtgaacct 360

cgtggtcgtc tgcggcgacc atggcaaccc ttccaaggac aaggaggagc aggccgagtt 420

caagaagatg tttgacctca tcgagcagta caa 453

<210> 8684

<211> 403
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-018-Q1-K1-F11

 <400> 8684

 cccgtacacc gagtcgcaca agaggctgac ctcccttcac ccggagattg aggagctcct 60
 gtacagccaa accgagaaca cggagcaciaa gttcgttctg aacgacagga acaagccaat 120
 catcttctcc atggctcgtc tcgaccgtgt gaagaacttg actgggctgg tggagctgta 180
 cggccggaac aagcggctgc aggagctggt gaacctcgtg gtcgtctgct gcgaccatgg 240
 caacccttcc aaggacaagg tggagcaggc cgagttcaag aagatgtttg acctcatcga 300
 gcattacaac ctgaacgggc acattcgttg gatcttcgcc catatgaact cgcgtccgta 360

acggcgagct gttccgttac atttctaca ccaaggtctc tag 403

<210> 8685
 <211> 253
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-017-Q1-K1-G4

 <400> 8685

 acgaacgttc ggcctgactg tgatcgagtc catgacgtgc ggtctgcca cgaatctgtac 60
 cggccatggt ggcctgctg agatcatcgt ggacggggta tctggcctgc acattgaccc 120
 ttaccacagc gacaaggccg cggatatcct ggtcaacttc tttgacaaat gcaagggaga 180
 tccgagctac tgggacaaga tctcacatgg cggcctgcag agaatttatg agaagtacac 240
 ctggaatctc tac 253

<210> 8686
 <211> 240
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-029-Q1-K1-F1

 <400> 8686

 cggaacgctg ggcggacgcg tggggtttac taccgtata cggaaccga caagagactg 60

actgccttcc atcctgaaat cgaggagctc atctacagcg acgtcgagaa ctccgagcac 120
aagttcgtgc tgaagacaa gaagaagccg atcatcttct cgatggggcg tcttgacccc 180
gtgaagaaca tgacaaggct gggcgagatg tacggcaaga acccgcgctt gaaggagctg 240

<210> 8687
<211> 433
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-042-Q1-K1-B5
<400> 8687

cccacgcgtc cgctgatacc gtactaccgt ctacaggatc agtatagctg aaggcatgag 60
caaattggag ggtgtagacg gtagtacggg atcaaaacaa ggacttcgat ttgttttcac 120

tgatggatct aggattatct tccggctttc gggaaccgga tctgctggag ctactatccg 180
cctctacata gaacaatttg aatctgatat ctggaagcat agtctcgatg ctcaaacagc 240
tttgaagcct ttaatagacc tggttttgtc tgtttcgaag ctcaaggact tcacaggaag 300
agagaaacct actgtcataa cataggccct gtttgtttcg gcttttgga gcttctggcc 360
accaaaagct actgcgtact gtcaaacgct cagcttttca gccagcttct ataaaattcg 420
gttggggcaa aaa 433

<210> 8688
<211> 431
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-019-Q1-K1-H1
<400> 8688

cccacgcgtc cggcttggtg ctgatgaaag ctactgttg aattgtgtcc cgaaagagga 60
ctttggagggt ggtcatccgg atcctaacct tacctatgca aaagagttgg ttgaacgcat 120
gggtcttgga aagtcacctt caaatgttga gcctcctgaa tttggtgctg cagctgatgg 180
agatgctgac cgcaacatga ttcttggtta aagattcttt gtgacaccgt cggactctgt 240
tgccattatc gcagccaatg ctgttcaatc aattccttac tttgcttctg gcctgaaagg 300
agttgccagg agcatgccaa catctgctgc ccttgatgtt gttgcaaaga atttgaacct 360

taagttcttt gaggtgccta ctggaatgaa gttttttggg aatttgatgg atgctggaat 420
gtgctcaatc t 431

<210> 8689
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-B12

<400> 8689

cccacgcgtc cgcctcccca aaggccctaa cctatcgccc gtacgagact gcgccgccgt 60
tgccgtctcc tctccgtcc catcactctc tgctcgcga ctctcacctg cccgcgccgt 120
cttcgaccgc caccaagatg aacaaggaga ggctcatgaa gatggccggc gccgtccgca 180

ccggcggcaa gggcaccatg cgcaggaaga agaaggctgt acacaagacg gtcaccacgg 240
acgacaagag gctgcagggc actctcaaga gagtaggggt caacaccatc cctgcaatcg 300
aggaggtgaa catattcaag gacgatctcg tcatccagtt cttgaacccc aaagtgcaag 360
cttccatcgc agcaaacaca tgggtgggtca gtggatctcc acagacgaaa aagctacagg 420
at 422

<210> 8690
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-B3

<400> 8690

gctctgtaaa gaaggatgca attagtcccc atggtggcac cagtagtca agtaatcagt 60
tggttcagca tggagtctac aaccaaggga tgggtatat gcagccacag taccacaatg 120
gggaaacctataaaagggt aatacagcag caatttatgc tagggaagtc tctgcattgc 180
ttaccatgtg tattggcaga aaacaggagg cacttacaaa ggggtgtaaat ctctgcgatg 240
gctgcctctc aggtgtaaatt tggcttccgt ttagcgtgc ttttgtccgt atatttagga 300
tgatttgact tgtgctactt ttgggcacct ttacattta cagatatgta ttattcagca 360
taaataataat atagtagtc 379

<210> 8691
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-F4

<400> 8691

cgcagcgtga tgggtttcaa ggatactcca aggttcaatt tttctttcca ggagttcgga 60
 ccgaagatta taatacccct ggagaatctg cggagtatcg agctcctaca cctgctgttg 120
 gaacacaaaa acaaagaaat gatgctggag atgatgataa tgatgatgat gatgatgaac 180
 ctctctttaa tgaagacgac gacgaggagt tagatgacct tgagcaaggg gaggatgaac 240
 ctaacacaca acatcttgta cttgcacaat ttgataaagt gtcaaggacc aagaatcggt 300
 ggaagtgcac cttgaaggat ggaatcatgc atttgaatgg cacggatgtc ctttttaaca 360
 aggcgacagg tgagtttgat ttttgatttt ttggatgaag atgagct 407

<210> 8692
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-H9

<400> 8692

gggatggcaa taaatggggc agaccaaca gctgggtcatc caagtcccta catgccggca 60
 ccttccccctt ggatgaatca gaggccgctg ggtgttgatg tgaatgtcgc ttatgtggaa 120
 ggccgtgaag atcctgacag ggcgtgcag cctcagccac tgactcagga ttttttgatg 180
 atgtcttctg ggaaacgcaa gagggatgag tctcctggtc agctcccttc tggttctttt 240
 gtaccacaac aagatggaag tgctgatcag atagtagaat ttgttggtgc aaaggaaaat 300
 gcgaatcaac tttggagttc catcggcaat aagcttgaaa caccaaccaa gacaatcact 360
 ccagttattc cgcagcgtga tgggattcaa gataactaca atgatcaat 409

<210> 8693
 <211> 422
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-042-Q1-K1-E7

<400> 8693

cccacgcgtc cggaacaag ctgagatctc cagcatgggg aggggaagga ttgagatcaa 60
gaggatcgag aacaacacga gccggcaggt caccttctgc aagcgccgca atgggctcct 120
caagaaggcg tacgagctct ccgtcctctg cgacgccgag gtggcgctcg tcgtcttctc 180
cagccgcgga cgctctacg agtacgcca caacagtgtg aaggctacga tcgagaggta 240
caagaaggca cagccggtg gctcttctc tggccccca ctcttagagc acaatgccca 300
gcaattctac cagcaagaat ccgcaaaact gcgcaaccag atccaaatgc tgcaaaacac 360
taacaggcac ttggttggtg actctgtgng aaacttgtca ctcanagagc tgaagcagct 420

gg

422

<210> 8694
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-D8

<400> 8694

cggacgcgtg ggcggacgcg tgggcggacg cgtgggggga tgcattccag cttgcgcgaa 60
gagaaagctc cttgtattat atttattgat gagatagatg ccattggcac caaacgtttt 120
gatagtgaag ttagcgggtga tagagaagtt cagcggacaa tgttggaatt attgaatcaa 180
ctggatggat tcagcagcga tgagagaata aaggatcatag ctgcaactaa ccgtgctgac 240
atccttgacc ctgctctgat gcgatctgga cggttgacc gaaagattga gttccctcac 300
ccatacgaag aagcatgagc tagaatcttg caaatccatt caaggaaaat ggatggaaat 360
cctgatgtcc acctgaaga attggctcgc tcaactgatg acttcaacgg agcacagc 418

<210> 8695
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-H6

<400> 8695

ggaccgtaga ttgagttccc tcatccatca gaggaagcaa gagctagaat cctgcagatc 60
 cactcgagga aaatgaatgt gaatccagat gtcaactttg aagagttggc gcgttcaacc 120
 gatgatttca atggcgctca gctaaaggct gtttgcgtag aggctggcat gctcgtctta 180
 cgccgagatg ctacagaggt taccacagag gatttcaacg aggggatcat ccaagtgcag 240
 gcaaagaaga agtccagctt gaattactac gcgtaagggg gggaacgccc ggtacttggc 300
 gatcattcag ttgtttgtga cactgccatt gtctgggcag gctaaacttac tatttgtact 360
 ataagcaagc tgttgctttt gtgtcttact ccgtatgaga gtatcattta tgaaatatta 420
 accaagtctg cctgc 435

<210> 8696

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-B7

<400> 8696

agcatctccg ctccggctgc gctctgcctt gctttctctg tacctgctct agcgcgagcg 60
 agagaggtac ggccggccgat ctggcggcgc aggcggaggg ctccggccggg gccggcaagt 120
 cggcgccgaa catggggagg ggccgggtcg agctcaagcg gatcgagaac aagatcaacc 180
 gccaggtcac cttegccaaag cgccgcaacg gcctgctcaa gaaggcgtag gagctctcgg 240
 tgctctgcga cgccgaggtc gcgctcatca tcttctccaa ccgcggcaag ctctacgagt 300
 tctccagcac gcagagcatg ccaaaaacac ttgaaaagta ccaaaaatgc agttttgcag 360
 ggctgaaac agcactccag aatagagaga atgag 395

<210> 8697

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-C9

<400> 8697

ggacaaggag atgactctgg aggaatttga gaaaataaga gaggagaaga ggagagcgac 60
 tacttgcatt gaaggctgag gagaggaaag ttgaagttga caaggatttg cagtctctgc 120

agccactttc aaacaagaaa gaaaatgatg aagttttcat taagctgggt tctgacaagg 180
 ataagaagaa ggaaaatgct gagcgtgatg agcgtgccaa gaagtcggtg agcatcaacg 240
 agttcctgaa acctgctgaa ggagaaaggt actacggcgg ccgtggccgt ggaagggggc 300
 gtggggatcg tgggtggttt agaggcggat acggaggggg atacagtcgt ggcccagctg 360
 ctgctgctcc atccattgaa gatcaagctc agttccaag cctcggtggg 410

<210> 8698
 <211> 398
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-033-Q1-K1-F8

<400> 8698
 caagaaaaag agactcgtcc agtcgcccaa ctccttcttc atggatgtta agtgccgggg 60
 gtgcttcagc ataaccactg ttttcagcca ctcccagact gttgttgtgt gccctggctg 120
 ccaaactgtc ctctgccaac ccacaggagg aaaggcaagg ctactgagg gctgctcttt 180
 ccgcaggaag ggagactaga gcggatgtgg tcttcaagtt ttgctctatg ccagatacta 240
 gcgtcatgaa ctgccttttag ctaagatttt ccataagttg ttctcgagca gctatgtgtt 300
 gcatgttggc tacttccaaa cttatatctg gtttggtttg gattgtgatg aactaatggc 360
 tctttgaatt tatattatga tgttgacgat atttggtg 398

<210> 8699
 <211> 432
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-041-Q1-K1-H6

<400> 8699
 gatctgctca acccgccggc agaactcgag aagctcaagc acaagaaaa gagactgggc 60
 cagtcgcca actccttctt catggatgtt aagtgccagg ggtgcttcag cataaccact 120
 gttttcagcc actcccagac tgttgttgtg tgccctggct gccaaactgt cctctgccaa 180
 cccacaggag gaaaggcaag gctcactgag ggctgctctt tccgcaggaa gggagactag 240
 agcggatgtg gtcttcaagt tttgctctat gccagatact agcgtcatga actgccttta 300

gctaagattt tccataagtt gttctcgagc agctatgtgt tgcattgttg ctacttccaa 360
acttatatct ggtttggttt ggattgtgat gaactaatgg ctctttgaat ttatattatg 420
atgttgacga ta 432

<210> 8700
<211> 255
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-H3

<400> 8700

cagctttctc agattgaaga ccagaagaac tttctacccc agtttagttga gactgaaatg 60
gacagacttt tgaaggaggg cacttacaaa ggaagaagt ttaatgcaat ctgtcacttc 120
tttggctacc aagctagggg agcactgcct tccaagtttg actgcgatta tgcctatgtc 180
ttggggcatg tgtgctacca catcatagct gccggtttga acggttacat ggccacagtg 240
acaaatgtta agagt 255

<210> 8701
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-D5

<400> 8701

tggcaaccta gtcgccactc tgctcgcgca caagttggga gtcactcagt gtaccatggc 60
tcatgccttg gagaaaacca aatacccca ctcggacata tacttggaca aattcgacag 120
ccagtaccac ttctcttgcc agttcacagc tgaccttatt gccatgaacc acaccgattt 180
catcatcacc agcacattcc aagaaatcgc gggaagcaag gacaccgtgg ggcagtacga 240
gtccacatc gcgttcactc ttctgggct ctaccgtgtc gtccatggca tcgatgtttt 300
cgatcccaag ttcaacattg tctccctgg agcagacatg agtgtttact acccgatac 360
ggaaaccgac aagagactca ctgccttcca tctgaaatc gaggagctca tctacagcga 420
cgtcgagaac tccgagcaca ag 442

<210> 8702
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-E7

<400> 8702

actcagtgtgta ccatcgctca tgccttggtta gaaaaccaa taccccaact cggacggata 60
cttggacaaa ttcgacagcc agtaccactt ctcttgccag ttcacagctg accttattgc 120
catgaaccac accgatttca tcatcaccag cacattccaa gaaatcgcgga gaagcaagga 180
caccgtgggg cagtacgagt cccacatcgc gttcactctt cctgggctct accgtgtcgt 240
ccatggcatc gatgttttcg atcccaagtt caacattgtc tcccctggag cagacatgag 300
tgtttactac ccgtatacgg aaaccgacaa gagactcact gccttccatc ctgaaatcga 360
ggagctcatc tacagcgacg tcgagaactc cgagcacaag ttcgtgctga aggacaagaa 420
gaagccgac tcttctcga t 441

<210> 8703
<211> 407
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-056-Q1-K1-A5

<400> 8703

agatcatcca cagagaccat cttccgtgta agagacaaga gagtgggaga gaggggggat 60
atatggcaga catcgcgttg ctggtgacgg agcagttcga caagaagctg aagcgaggcg 120
ccccggcga ggacatcggc ggcgggcgccg gcgaatatag gaggaacttc ggggccgtgg 180
ccaaggtgtg gagctcgtgg gtggagtccg ccgcccgcgc gtccgggggtg aggttcagcg 240
tctcgttgca cctggagccc aagaccgcgc tcgccctggc cgccgacgac ggcctcttct 300
ccgcctagct agctagctag ctactagtgt cgcctagctg cttncaggcc cttcttctga 360
gtgagcatca gtagtcgagt tcttctggac catataatac aatgcgc 407

<210> 8704
<211> 395
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-035-Q1-K1-D9

<400> 8704

catctctagg gctcctgttt ctcccatcc tccccacc ctaccccgca ccaaacgggt 60
tcaatccgac atgacaagca tccatgtcgt cgtcacgccg gagctcgagc cccgacagca 120
acgacacgac ggacgagcgc aagcggaagc ggatgctgtc caacagggag tggcgcgggc 180
ggtcgcgcg cgcgaagcag cagcggctgg aggagctgtt ggcggagggtg gcccgctgc 240
aggcgagaa cgcggcgacg caggcccgca ccgcgcgct ggaacgcgac ctgngcaggg 300
tggacggcga caacgctgtg ctgcgcgcc gccacgccga gctgaccggc cgctgcagt 360
cactgggcgg cgtcctcgaa gtgctccaga tggcc 395

<210> 8705

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-B10

<400> 8705

cccacgcgtc cgggtggcaaa ctacatgggt caaatggcca tggctatggg aaaacttggg 60
acgcttgaga atttccttcg tcaggctgac aacctgcggc tgcagactct acaacagatg 120
caaaggatcc tgaccactag acagtcagct cgggcgctac ttgtgataag tgattactct 180
tcacgtctcc gtgccctaag ctctctctgg cttgctcggc ccaaggaata gcaagaacat 240
gctatttgac tgcaatactt ttcacaattt ggttttcaat ggtcaggaga tttgacaagg 300
ctgcgacaga cttgattcgg acatatctgc acatactatg acccaaattg aaggggatgt 360
tcatgtagct taagctgctt agctttgtag ttaagtgttg ttgatgtatc attaccaact 420
gctgtaaaa 429

<210> 8706

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-A5

<400> 8706

gtcttctcat gaacgcacgc cccctctcca cctgctgac cttcgccgtc tctctctgtc 60
tctctctctc tctctcttag atagtctttt gaatccatct ctagggctct tgtttctccc 120
catectcccc ccaccccacc cccacacaaa cagattcaat ccgacaagac aagcatccat 180
gtcgtcgtca cgccggagct cgagccccga cagcaacgac acgacggacg agcgcaagcg 240
gaagcggatg ctgtccaaca gggagtcggc gcggcggtcg cgcgcgcgga agcagcagcg 300
gctggaggag ctggtggcgg aggtggcccc cctgcaggcg gagaacgcgg cgacgcaggc 360
ccgcaccgcg gcg 373

<210> 8707

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-023-Q1-K1-E11

<400> 8707

gccacgcgtn cgattgggca aggtacaac tgtgtgcaa agtggcactc caggcattgg 60
tggactccca gccaaaggcaa tgctgcagaa actgcgaatg tttaatacat attttgagga 120
gatctatgcg gcacagtcag aatgggtgat agcagatgac cagctaaagg ttgacattag 180
ggcagcggtg gaggagacag tgatgccagt ttacgcctct ttaattgcca agttaaagtc 240
ttctcctgaa actgggcgtg atttgtacat caaatacacc ccagaagatg ttgtaaccga 300
catccagcac ttggtttgaa gaacaacaaa gtgataaatg atatgtatcc ttgtagcctg 360
ttatactgca gcttctgctc ttctgaactt gtgaagttgc taccatggat ttct 414

<210> 8708

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-E10

<400> 8708

gcgcggcggc cacaaaaccc agtcccatat gcacccgtcc gttccgcgag atcagccgag 60

cgatgtcgtc gtcggcgccc gcaccggccg ccatggccgt ggacgacgcg gaggacgacc 120
agctcgcctc catgtccacg gaggagatca tcagggcctc cctgtcctc gacaacgaga 180
tccgcgtcca caaggatgag ctgcagcggc cgaacctgga gctggagtct atcaaggaga 240
agaccaagga gaaccaggag aagattaagc tcaacaagca gctgccgtac ctcgtcggca 300
acatcgtcga gattttggaa atgaaccctg aagatgaggc tgaagaagat ggtgctaaca 360
tcgatct 367

<210> 8709
<211> 394
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-047-Q1-K1-C2

<400> 8709
cttgcgtgtt gtcggtagt gaaattattca aaagtacctt gnggatggc ccaagctagt 60
cagagaattg tttanggtgg ctgatgaact ttctccctca atagtcttca ttgatgagat 120
tgacgcagtt ggaacgaaga ggtatgatgc tcattcagga ggggagcgtg agattcaaag 180
aactatgttg gagctgctga atcagctaga tggttttgac tcacgtggag atgttaaagt 240
cattctagca acaaaccgca ttgaaagtct tgatccagcc ttgcttcggc caggccgtat 300
agaccggaag attgaatttc ctctaccaga tattaataact agacgacgca tcttccagat 360
acacacatcg aaaatgacat tagctgatga tgtg 394

<210> 8710
<211> 424
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-027-Q1-K1-C2

<400> 8710
cgacagaggg aaaaaaactc agaaacccaa ctcgctcgtt cccgcaactc gcattcttgc 60
cgtcgacagc tccaactccg gaacccttgc cgccggcgcc ggcgatgtcg tcattctaccg 120
ccccgcccc ggccggcgcc atggccgtgg acgatgcgga ggacgaccag ctcgcctcca 180

tgtccacgga ggacgacatc cgggcctncc gccttctcga caacgagatc cgcgtcctca 240
 aagacgagtt gcagcggacg aacctggaat tggagtcgt caaggagaag atcaaggaaa 300
 accaggagaa aattaagctc aacaaacagc taccctaacc tcgtggcaat ttcgttgaga 360
 tcttggaat gaatcctgag gatgaagcta aggaggatgg tgctaacatt gatttagatt 420
 caca 424

<210> 8711
 <211> 404
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-003-Q1-K1-C10
 <400> 8711

ggttcctgat tctacatatg atatgattgg aggccttgac cagcaaatta aagagatcaa 60
 agaggtcatt gagcttccaa tcaaaccatcc ggaactatct gagagccttg gaattgccca 120
 accaaagggt gtctccttt atggacctcc aggcacagga aagacattgc tggcacgtgc 180
 gggtgctcat cacactgact gcacctcat cagggtgtct gggtctgaat tgggtcagaa 240
 gtatattggt gaaggttccc ggatgggtcg ggaactatct gttatggcca gggaacatgc 300
 gccatgcac atgttcatgg aagaaagtga ctctatcgga tctgctagaa tggagtctgg 360
 aactggcaac ggtgatagtg aagtgcacgc tacaatgctt gaac 404

<210> 8712
 <211> 436
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-058-Q1-K1-C8
 <400> 8712

cccacgcgtc cgtgaggatg atggacgtgc agtccgtcgc gcagcagctg cggatgagga 60
 tgcagcttga gcgtgccgt gccgccagca gcagcctgta cgagccagct ctgatgcagc 120
 agcagcagca gctgctggca gccagggtc tcaaccccat ggccatgatg atggcgcaga 180
 acatgccggc catgggtgga ctctaccagt accagctgcc cagctaccgc accaaccct 240
 gtggcgtctc cgctgccatt ccgcctact actgattcat gatatttggg aaatctctc 300

tatccatctc tctctatcta tatatgtaat aatgcagtaa gacgacacac attatcatgt 360
 gtggtatgac caataatata tgcattgtca taataaagtt ttgggtttta tgaatcaaaa 420
 gctaacaaaac ccaacc 436

<210> 8713
 <211> 387
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-C9

<400> 8713

cccacgcgtc cgcccacgcg tccgtgtttt tttttttttt ttgttccaag taccagttgt 60
 ttttggcact gagaattaca gcttccaagt gacacaatac agcagcattc agcaccacac 120

gcggcactgt actgcaaacc caattcgggt catcattata caggaaggat agaacgaata 180
 catggaggca cgtccagggt ccggcaacac aacgcagcag cgaccccaaa ggccaggtag 240
 agaaaatact acatggcata cctctgggtc caggtcctcg cggtgttctc gtacttgtgc 300
 cggtccgtct tgtacatgtg agctatctcg gggaccaaag ggtcgtcggg gttcggatca 360
 gtcagcaagg aacagatgga cagcagc 387

<210> 8714
 <211> 360
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-D10

<400> 8714

aactacctca tgtctcacta gaactagtga caatttaacc ttataatact aaacctatac 60
 ctacttctct aattactatc caacaacatc ttttcaaaca tcctcaaaat ctcaacacta 120
 aacctaaaat ccaatataac tctaaccact atcatcacc cataacaatt cttcctcaat 180
 ctactgtcc ttccatttca aactctcaac taaactcaa cttccttttt aaccacgac 240
 acctttacat tccacaacta cctcaacttc taatcgaaaa acatttcctt aaaattaaac 300
 caaaaattcc tcttctaacc caatccttaa accttttttt actatctata aatttcacat 360

<210> 8715

<211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-058-Q1-K1-D12

 <400> 8715

 cccacgcgtc cgccacgcg tccggaaatc catctagagg ccgtcgacag ggaattaga 60
 gggcggcgtc gtctagcagc agccaccgcc gctcatcct cgcagccgcc gtctgtctct 120
 ccgtgctcgc ggctgccagc gccagcgccg ggacctcctg cgtgccgggg tgggccatcc 180
 cgcacaaccc gctcccagc tgcgcgtggt acgtgaccag ccggacctgc ggcacggggc 240
 cgcgcctccc gtggccggag ctgaagagga gatgctgccg ggagctggcg gacatcccgg 300
 cgtactgccg gtgcacggcg ctgagcatcc tcatggacgg cgcgatcccg ccggggcccgg 360

 acgcgcagct ggaagggccgc ctagaggacc tgccgggctg cccgcgggag gtgcagaggg 420
 gattcgccgc cacc 434

<210> 8716
 <211> 355
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-058-Q1-K1-D3

 <400> 8716

 aggacgcgtg ggccttgct cccgtactgt ccgactaaca caagaactcg acaagctggg 60
 ctgtgtccga tgggctttcc tggatggacc caacttcggg gcttctttaa ccacaggaag 120
 gggaccttca tctaattctt catggagcgc ctttcctttc tctcttcaa agccgccgtc 180
 gtcgcaaccg gcgncggcgg cgtcggcttc taatcaacca agtctccgtc catcacaccg 240
 tgcactttgt actgctagct agtactatat aacatttgta atgtccagaa gcttaaattcc 300
 tgtacgggca gcaacctggg taaatacatc ggcccatgct ttcgctcggg cctcg 355

<210> 8717
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3059-058-Q1-K1-D4

<400> 8717

aggtaagatg ttcctgcgga ggatcctgac cggccggggc cggctggccg cccttagggg 60
cgccgcgcgc ctgaaaggag atgaacggga atcgtgggcc ttggagggtgt gccttaacgc 120
gcgagaggnt ctggtagggc tctacgagcg cagcgtcaaa gagatcaagg ccgtncncga 180
agacgagggt taccgcaagg ccgttgaatc cttcaccggt caccgnetcc agatctgcca 240
agaggaggaa gactggaagc gcatcgagga ccgaatcgga tgcgggcagg tcgaggagct 300
catcgaagag gccgaggacg agctcaagct catcgctaaa atgattgaat gggatccatg 360
gngtgttccc gatgactacg aatggtaagt gattgaagac gacaccccaa ttcctaagca 420
tgttcc 426

<210> 8718

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-D5

<400> 8718

caacaagcaa catagaaagt ggaatccagt agcaacaata gagcaacaat ggcgaccagg 60
atattttccc tccttatgct ccttgetctt tctacatgtg ttgctaacgc gacaattttc 120
cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaattata 180
gettcaatat gtgaaaaccc agctcttcaa ccatataggc ttcaacaagc aatcgagca 240
agcaacatac ctttatcgcc cttgttggtt caacaatcgc cagccctatc tttggtgcag 300
tcattggtac aaaccatcag ggcacaacag ctgcagcaac tcgtgctacc tctgatcaac 360
caagtagctc tggcaaacct ttctccctac tctcagcaac aacaatttct tccattcaac 420
caactgtcta cactgaa 437

<210> 8719

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-D6

<400> 8719

cccacgcgtc cgcccacgcg tccgggacac cagcaggcag tccaagcagc tggaggatct 60

caccgccaag atgagagagt gcaagcgggc ttagcaagaa agagctccag gaccttctgc 120

aagagggcgc caagatgctg gttcgtgctg caagtgctag aggaaattgg atcctcgggt 180

cgggcgatga gatggaaggg atgctgcagc cacacgggcg ttgagtcatg acgtgactgc 240

tcgcctgggtg ttagctttgt caggaactcg ctctattttg ctgctgtctg ttatgtcgta 300

tggtctggta cttgtgtgat gtaaaactct aaactcgtcg gttggcatgt tgcctggtag 360

gggacccggc tgttctgagt catccgaagc ggattggctc gtcagcgctt ctgtttgcgg 420

gt 422

<210> 8720

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-D7

<400> 8720

cccacgcgtc cgcccacgcg tccgggggtc catcagccga cacaagcacg gggacgatgt 60

taccgtcaac atgagagagt gcaagctgtc ttatcatgaa agagctacag gaccttctgc 120

aataggctgc caagatgctg gatcgtgctg caagtgctag aagaaattgg atcctcgatt 180

taggcgatga gatagaaggc atgctgcac cactactagc ttgagtcatg acgtgactgc 240

tcgcctgggtg ttagctttgt caggaactag ctctattttg ctgctgtatg ttatgtccga 300

tggtttggta cttgtgtgat gtaaaactct aaac 334

<210> 8721

<211> 441

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-058-Q1-K1-D8

<400> 8721

ccaagaacct caagcttggc atccacgagg actccacgaa caggaccaag attgctgagc 60

tcctgaggta cactcgcacc aagagcgggg atgagctgac cagcctcaag gattatgtga 120

ccaggatgaa ggagggccag aacgacatct tctacatcac tggtagagagc aagaaggctg 180
 tggagaactc cccgttcctt gagaagctga agaagagggg ctatgagggtg ctgttcattg 240
 tggatgccat tgacgagtat tctattggac agctgaagga gtttgagggc aagaagctcg 300
 tctctgccac caaggagggc ctgaagctgg acgagagtga ggatgagaag aagcgcaagg 360
 aggagctcaa ggagaagttt gagggcctct gcaagggtcat caaggagggtg ctgggcgaca 420
 aggtgganaa ggtggtggtc t 441

<210> 8722
 <211> 433
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-058-Q1-K1-D9

<400> 8722
 cccacgcgtc cgtccacgcg tccgcccacg cgtcctgcc a tctcccaatg gatccccggg 60
 cgtctgcccc agcagctctg atgtggaact acgatgaggt gatggctatt gttcaccagt 120
 acaactgtgt caaggcctgc tttgccggtc atgaccacaa ggtggccac tctgtggact 180
 cacacggtgt gcaccaccgc acccttgagg ctgccttgga gtgtcctcct ggtaccagcg 240
 cttttggtca cgtcgaagtg taccctaaca ggctgctgct ttaggtttt gacagaatgg 300
 ctgatacaga ggtccgtttt tgagccatta aacggcttta attcgtgccg acttctacta 360
 cttctataat gttnttgtct atatagatta cagctgcagc agtccaaacg ctggctttaa 420
 tccgatgctt aca 433

<210> 8723
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-E10

<400> 8723
 atcgggcggt gggcgtaata ggcgcggtgc agatgggtcg ggcacgcga ctcggcgcg 60
 cggagctgtg cgtcttctc ctcgacgccg acccaactgc cctctcccg ggcgtcatct 120

ccatctccgc ctccctacgg cgctcgccg ccaagggcca gctctcccag gccgcgtgcg 180
 aggactcaat aaagcggata aggtgctgt cgcgcgtgca ggatctcagg gacgcggatc 240
 ttgtgatcga ggccgtcgtg gagaacgaag ctgtcaagaa gaagctattc gtggagctgg 300
 ataaggtcac gaagccctcg gccatcctcg cctccaacac gagctccatc tccataaccc 360
 gcctggcttc agctaccaaa cgccctctc aggtgatagg catgcacttc ttc 413

<210> 8724
 <211> 424
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-058-Q1-K1-E11
 <400> 8724

cccacgcgtc cgaccacacc accggcgggc gcggcgaccc agtcgagaac acgaaggcga 60
 tggcgacagc gctgaaccgc gggtccgcc tctcgccgc cggcgccgag gcgtccaagc 120
 cagcttctcg tggattccat gccaccggcg tgaagagaat gggagggcat ggccatgatg 180
 agccatacta catccatgcc aagcacatgt ataacttgca caggatgaag catcagggtt 240
 tgaaggtgac actctccgtg ctgggagcgg ttggcatcgg tgttgagtc cctgtgtatg 300
 cagtcattat ccagcagaag aagactgcct ctggctgaga tgatgcctct cgctgcctgc 360
 atatggagac ttattttgag cgacattttt ttgaagttaa aagcttgagc ttcattctat 420
 cttg 424

<210> 8725
 <211> 422
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-058-Q1-K1-C6
 <400> 8725

gctctgggcc accaacgagg ttcgcgcaa gtccaagtgc tggacttcc tgagaaagcg 60
 tcaagaaggt gaagaagagc aatggccaga tgcttgccat caacgagatc tttgagcgca 120
 acccgaccac catcaagaac tatggcatct ggctgcgcta ccagagcagg actgggtacc 180
 acaacatgta caaggagtac cgcgacacca ccctgaacgg cgcagtggag cagatgtaca 240

acgagatggc ctccccccac cgcgtgaggt cccctgcat acagatcatc aagacagcga 300
 cgggccactt caagctgtgc aagagggaca acaccaagca gttccacaac tccgagatca 360
 agttcccgt tgtgtaccgc aaggtcaggc cgnctaccag gaagctccgg accactttca 420
 ag 422

<210> 8726
 <211> 237
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-058-Q1-K1-B12
 <400> 8726

cgaatttggt aagggcttca tgttgagacg atgaataccg actgtcgccg ctactctgag 60
 ctccgttgta tctcctctgt tggctgatta actgttatta caagaaattg ctggacttgt 120
 tttttccagt tgttttgaat catgtattat ggttgcattg gcaccatttc ttcgtgggat 180
 gtgaattgaa acagtccaaa tcaattggtg tggcagatat ctggtttgcc cttctac 237

<210> 8727
 <211> 316
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-058-Q1-K1-B2
 <400> 8727

attatgcca agtgcttatg ctgccgatga tagagctcta gcgcatgtac catttctggc 60
 atattttgct tattcgctaa ttgctgaata cttgacttat tctcggaat ggtctatatg 120
 cagtccatgg gacgatgcaa gcgatgtcag atgatcaacc tatatcagag ctcatgtcat 180
 gtgatcaagt caaaggaacc gttggcaact ttagcatcgt atagacgaag acatggaaag 240
 attttgtttg gcgttctgtt gaactatgaa tatgacatgg acggagaaga tgatgccatt 300
 gtccatagat ggctca 316

<210> 8728
 <211> 315
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-B4

<400> 8728

gatagcactg cgtcacagcg ctggtcttta taaccttgcg agtacatgct atatgaatgc 60
gacattgccg tgtctgcatt ctgatccaga gctgaagtca gcgctgctaa gctatctaca 120
tactgcaaga ggtaatggca ttgaccaagc ttgtcataat atgactgctg ctactggcaa 180
taactctgat gatcttcac aacgtgttca cgctgacgca cctctacaag tgctgctgac 240
actgcgtata ctatacctga aagttgcaca gcagattctt aatgtctaca tgcaccagga 300
tgcagactaa tgctg 315

<210> 8729

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-B5

<400> 8729

gagaataaat ttttttccat cggaatgtct gaaactatgt tgggtgtatc ctagtggggg 60
gttgagcatt aatggctcat attttgtcag gtctatgtgt cgccgtgaaa cttttaatca 120
aatcagttca ctcttttggc tctaaaaaaaa aactaaaaga acaaaaagac ctaaaaaaaaa 180
aaaaaaaaaa aaaaatgcaa agcaagtact gctggtgaag acatgtttca ttggcaagca 240
acaattatgg gaccacctga cagtccttat gctggtggtg ttatcttagt gaacatgcca 300
ttgccgacag attacctgtt caaacctcca aaggtttctt tgaagacaaa ggtcttccat 360
cctaatatca acagcaatgg aagtatatgc cttgacattc ctgaagagca ttggagccct 420
gcttt 425

<210> 8730

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-B6

<400> 8730

cccaactcct gaccttactg gatacattac tgagggacag atatacattg ataggcaggt 60

ccataacaga cagatttatc cacctattaa tgtcctgccca tctctttcac gattgatgaa 120
gagtgcatt ggtgaggga tgacacgtcg agaccattcg gatgtatcta atcagcttta 180
tgccaactat gctattggaa aggatgttca ggccatgaag gctgtcgttg gagaggaggc 240
actctcgtct gaggatctgc ttacttaga gttccttgac aagtttgaga ggaagtttgt 300
gacacaagga gcatatgaca cacggaacat cttccagtca ctcgatcttg catggacatt 360
gcttcggatc ttccctggcg aacttctcca ccgtattcca gcaaagacct t 411

<210> 8731
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-B7

<400> 8731

cttgcattha accaattggg cgtactgaac cccgctgctt atttgcagca gcaaatagga 60
ctaccattha gccagctagc tgcagcaaac cgtgctgcct tcttgacaca gcaacagggtg 120
ctgcctttct accaacagtt tgccgctaac ccagcatccc tctgacaact acaacaattg 180
ttgcccttag gccaaacttg tttgacagac ccagcggact gctaccaaca acacatcatt 240
ggtggtgccc tgtgttagag tgctaattag atgtaattga catagtaaag taggatggat 300
gatgcatgtg gacaaccaga aatacgaagt tacattcaca gaatctaaca tgcattggaca 360
ttgcttcgga tcttcctcgc cgaacttctc caccgtattc cagcaaagac cttggaccag 420
tactatagca gagatgc 437

<210> 8732
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-B9

<400> 8732

gcaacataga aagtggaatc cagtagcatc aatagagcaa caatggcgac caagatatgt 60
tccctgctta tgctccttgc tctttctgca tgtgttgcta acgcgacaat tttccctcaa 120
tgctcacaag ctctatagc ttcccttctt ccccatacc ttccatcaat gatagcttca 180

gtatgtgaaa acccagctct tcaaccctat aggctccaac aagcaatcgc agcaagcaac 240
 atacctttat cacccttggt tcaacaatcg ccagccctat ctttggtgca gtcattggta 300
 caaaccatca gggcacagca gctgcagcaa ctctgtctac ctgtgatcaa ccaagtagct 360
 ctggcaaacc tttctcccta ctctcagcaa caacaatttc ttccattcaa ccaactgtct 420
 acattga 427

<210> 8733
 <211> 385
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-058-Q1-K1-C10

<400> 8733
 ggcacgcgtg gtggaaccct aagtgggtgga cctcatggac gtacttaagg attcggcggg 60
 acttgccgat acgggtcttg attcatgtga ggaatgaggc gtgcagtttc actttcactt 120
 taactctgat aatgaccatg cataagcgca ttcgtgactt aatgacaaac taagtgtcaa 180
 aggacgagtc tttcaaatta tcgtgcgcac tacataatac acttcatgcc atatgttgat 240
 ctctatattg ctataactat tatgatactg aatatgcttt agaaaaaaca taaaaaata 300
 caaacaataa aaacatatca aaaacaacaa ttcacaccaa ggctgaacca aactagatcg 360
 agtaaccctg aagggttgta gcttc 385

<210> 8734
 <211> 434
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-058-Q1-K1-C11

<400> 8734
 cccacgcgtc cggaaaacag aagttccagg gattcacggt ggatgaagcc ctgatggaga 60
 ttgctggccc acaggcctac cttatgcact gtttgccgc agagagagga gtggagggtga 120
 ccgacggtgc catcgaggct ccaaattcaa tcgtgttccc ccaggctgag aacagaatgc 180
 acgctcagaa cgccatcatg cttcacgttc tcggtgctta accctcctat tgcacaccag 240

tggttaactt ttcttgaatt tgcttaggga ttgaggcagt tttggcttta gggcatatgt 300
gagagcttaa ttcagcgaac tgttcagtaa cgtggtaact gttcttcagg gtgggagttt 360
gttgactggt aaaagtttgg caacctgaat aaaaaataat cttttgtgct gggtttactg 420
agcagcangg aaaa 434

<210> 8735
<211> 430
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-058-Q1-K1-C12
<400> 8735

cctggatttt tcttctgctt gtggatgctg tcaaagaagc attggcttgc aaataatggt 60
ctgggattgg ctttctgtat tcaggggatt gagatgctgt cattgggatc atttaaaacc 120
ggagccattc tcttgggtgg actttttgtg tatgacattt tctgggtgtt cttcactcca 180
gttatggcca gtgtggctaa atcttttgat gctccgataa agcttctgtt tctactgctg 240
gatgatgcaa ggccattctc catgcttggc cttgggtgaca ttgtaatacc tggcattttt 300
gttgcaacttg ccttgcgctt tgatgtctca agaggcatca agaagcgta cttcaacagc 360
gcattttcgg gatacgccgt gggatggcgt gtgacatca ttgtaatgaa ctggtttcaa 420
gctgcacagc 430

<210> 8736
<211> 439
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3059-058-Q1-K1-C2
<400> 8736

accatctgtc gactggtagc agagagaaga gatagaccga gagagggagg gagagagaga 60
acctgagact gagactgaag catccgcgct agctagcttg ggcagcaaca tcacgatgtc 120
gtccaactgc ggcgaggatg agaaggagct ggtgtgctgt accggcgccg gcggcttcat 180
cggctcgtgg gtggtgaatg agctgctcca gcgggggttac cgcgtcaggg gaaccgcgag 240
ggaccctgct gacagcaaga acgcgcacct gctggctctg gagggagcca aggagcgcct 300

caccctgtgc cgggccgacg tactagaccg cgcctacctg cgcgccgnet ttgccggctg 360
acacggcgtc ttccacgtcg ccatcccggg gtccaacgac ccggagcttg tccgggtggcg 420
gtggagggca cccagaacg 439

<210> 8737
<211> 408
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-058-Q1-K1-C4
<400> 8737

gtcaaatatg tgcttgttgt ctttggagga cttgttggat accctagcga tgatatcaat 60
aagttgcttt ggatggtacg aataggaggt ggtgtgttcc ctacacattaa ggagccagat 120
tatcttaggg acggtcaata tcgcgttgat gctcaagcta ctccaactat gctgaattgc 180
ctcatgtaca agctttgtta ctacaggttt gtggagactg atggaaaagg ctttgacaga 240
gtaagaggat atgaaatagg aaagaagcat ttcaagctaa cacattttga ggaggatattt 300
acaaccacc attggatggg ccgcataatat aaactgaaac cccagaagaa cagggttcga 360
ggcaagctgg aagaagttga aggccagtgc ccaaaactag ttccacac 408

<210> 8738
<211> 436
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3059-058-Q1-K1-C5
<400> 8738

cacgcgtccg ccggactttc cttctgcttg tggggttcgt caaaaaagca ttggcttgcg 60
tataagggga ctctattgga tgtctgtatc caaggcactg agatgctgtc attagaatca 120
tttaaaacac caaccattct attgagtcga ctttttgtgt atgacatttt ctgcttgtag 180
ttcactccac ttatagacag tgtgggctaaa tcatttgatg ctccgataaa gcttctgttt 240
cctactgcng atgatgcaag gccattctcc atgcttgacc ttggtgacat tggaatacct 300
gacattttag ttgcacttgc cttgaactgt gatgtctcaa gaggcattaa catacgttac 360

ttcaacaacg cattttccga atacgccgaa gctatggcgg agaccatcat tgtaatgaac 420
tggtttcaaa gctcac 436

<210> 8739
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-B1

<400> 8739

attatgccca agtgctaatt ttgccaataa taaaacccta aaacaaatac catttctggc 60
atattttgct tatttgctaa ttgctgaata cttgtcttat tttcggaat ggtctatatg 120
cagtccatgg gaggatgcaa ccgttgctcag atgatcaacc tatatcagag ctcagggcag 180

gtgatcaagt caaaggaacc gctggcaact ttagcatcgt atagacgaaa acatggaaaag 240
attttgtttg gcgtcctgtt gaactatgaa gatgacatgg aaggagaaga tgatgccatt 300
gtagagagat ggctcaaagt ggggcaagag gtgtaccctt caacataata atgacttcca 360
tacctgtgta ccaaaccaaa t 381

<210> 8740
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-H2

<400> 8740

cagcaagcaa catagaaagt ggaatccagt agcaacaaca gagcaacaat ggcgaccgag 60
atattttccc tccttatgct ctttgccttt tctgcatgtg ttgctaacgc gacaattttc 120
cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaatgata 180
gcttcagtat gtgaaaaccc agctcttcag ccctataggg tccaacaagc aatcgagca 240
agcaacatac ctttatcacc cttgttggtt caacaatcgc cagccctatc tttgggtgcag 300
tcattggtac aaaccatcaa ggcacagcag ctgcagcaac tcgtgctacc tgtgatcaac 360
caagtagctc tggcaaacct ttctccctac tctcagcaac aacaattttc 410

<210> 8741

<211> 367
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-057-Q1-K1-H5

 <400> 8741

 gcaaagcggc agtgcgtaga gaggatcgtc gaacagaaca gcatgaagat ggtcatcggt 60
 ctcgctcgtgt gcctggetct gtcagctgcc agcgcctctg caatgcagat gccctgcccc 120
 tgcgcggggc tgcagggtt gtacggcgct ggcgccggcc tgacgacgat gatgggcgcc 180
 ggcgggctgt acccctacgc ggagtacctg aggcagccgc agtgcagccc gctggcgggc 240
 gcgcctact acgccgggtg tgggcagacg agcgccatgt accagccgct ccggcaacag 300
 tgctgccagc agcagatgag gatgatggac gtgcagtccg tcgcgagca gctgcagatg 360

atgatgc 367

<210> 8742
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-057-Q1-K1-H6

 <400> 8742

 gccccaaaaa caacacactt gtgataacta catctaaaaa tgagggtgtat gtatttgatg 60
 tggaagcaaa acaattaggc gaatggtcca agcgatatac acaccagttg cccagaagtt 120
 tccaggaatt ccctggagag gtcattggct tatcatttcc tccgcaaagc tcatcgtcag 180
 ttgttgata cagtaccagg gctatgtgca acatcgattt cggattgcca gtcgttgagg 240
 atgttggtt gccaaatgga tcagggtggac cagcagagaa ggcagacgca taaaagagta 300
 aaaaaacaag gcagaagcgt aaggcccggtg atgaagagtc tacagaggag aaaaggaaca 360
 acttcaactt ctttgcgttt aaagaaccag tgctctttgg tgggcatcta caggacagtt 420
 caattttaat ggtagag 437

<210> 8743
 <211> 367
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-H7

<400> 8743

cggacgcgtg ggaacaaatg cgttcattat tccacaatgc tcacttgctc ctagtgccat 60
tataccacag ttctccgac cagttacttc aatgggcttc gaacacctag ctgtgcaagc 120
ctacaggcta caacaagcgc ttgcggcgag cgtcttaca caaccaatta accaattgca 180
acaacaatcc ttggcacatc taaccataca aaccatcgca acacatcagc tacaacagtt 240
cctaccagca ctgagccaac tagatgtggt gaaccctgtc gtctacttgc aacagcaggt 300
gcttgcattcc aaccacttg ctctggcaga cgtagctgca taccaacgac tacaacaatt 360
gcaacag 367

<210> 8744

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-H8

<400> 8744

gcgaaaggcg gccttctcac cgtctgactc cggttatgca gcggcacgta gtctccgggc 60
ggccgtttgg cacggacggc ttcgactttt ttaccgcat ggtcttcgaa tcccgggtacc 120
agaaggtcgc cgagggcaga tcccgaactc cgcgctcat cctcgtgcag gcgctgcacc 180
tagtggccgg aggcttgctt ctattgctgt cgatgcacaa gggggcggcg gtgaacaagt 240
tcgccgagct gtgcatggcc gccggattcc tggctataac ggtgggggaa ttatggcgaa 300
tgcggtgcat 310

<210> 8745

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-A1

<400> 8745

cggacgcgtg ggccggacgcg tgggtctgaa ttgtcaggtc catcagctgg ccctaagggt 60
tcaaagaagg ttgcacaaca gtctccaagg gccaggttg caatctttgt tgttcttgcc 120

atgactttaa gaagaaagcc tgatgtactg gtaaattgta tgccaaagat aatgggaaac 180
aataaatatc tgggacagga aaagcttccc atcattgtct gggttattgc tcaggcctct 240
caaggtgacc tagtgtctgg catgttttgc tgggctcatt ctctatttcc cacattatgt 300
gcgaagtcaa gtgggaatcc ccttgcaaga gatttggttt tgcagttgct tgaaagaatt 360
ttgtctgtca ccaaagctcg ttctatatta ttgaatgggtg ctgttagaaa gggagaacgc 420
ttagttcccc ctgtttcatt tgac 444

<210> 8746
<211> 411
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-058-Q1-K1-A10

<400> 8746
gtgatagatc gctatagagc attctagatg acgctcgctt acatgcgact tcatacgagg 60
tctagggtgt tatataaagt caactaactg gacttcactg tacaacgttt taaatcgtaa 120
taacttgga atacccaact taacccaact gaatcacatt gcactatatt cagctttcgt 180
catatggaat aataccgaac agatcggcat tgataaact tgcgcacact gaatcacgat 240
taatacgcac tgtgacgcgc cccattaagc gccattaatc tcgtcggttac tcgcagttac 300
accatactg tatectacac tctacagccc gctactttcg gttcctttcc ttactttctc 360
tacacttctg gccactttcc ccgtctatcc ctaaatagct gtatatcttt a 411

<210> 8747
<211> 303
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3059-058-Q1-K1-A2

<400> 8747
agaacacgta tgcggacaac cagaaaactt tagtattgaa ttacaactac taagtaatgg 60
gtcatagggc gtagcacaac agtctccaag ggccacggtt gcaatcttag tggtccttgc 120
cctgactctg agaagaaagc ctgatgtact gattaatgtt actacctaga tactgangtc 180
acagtgatta tctgagacaa cacaatcttg ccatcatcgt ctgcgatact gctcaatcct 240

ctgacagtga cctaccgtct ggcattgctat gatgatctca ttctctattt cccacattat 300
gtt 303

<210> 8748
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-A5

<400> 8748

gcgaagcgca ctagcaacga cctaacaaca atggctacca agatattatc gctctttgcg 60
cttcttgccc tttttgtgag cgcaacaaat gcgttcatta ttccacaatg ctcaacttgc 120
cctagtgcc a ttattccaca gtctctccct ccagttactt caatgggctt cgaacaccca 180
gctgtgcaag cctacaggct acaacaagcg cttgcggcga gcgtcttaca acaaccaatt 240
gccc aattac aacaacaatc cttggcacat ctaaccatac aaaccatcgc aacgcaacag 300
caacaacaat ttctaccagc actgagccaa ctagctgtgg tgaaccctgt cgcctacttg 360
caacagcagt tgcttgcatc caaccactt gctctggcaa acatagttgc ataccaaaaa 420
caacaacaat tgcaacagtt tc 442

<210> 8749
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-A7

<400> 8749

cagaaacaca cctagegaag cgcactagca acgacctaac aacaatggct accaagatgt 60
tatccctctt tgcgcttctt gccctttttg tgagcgcaac aaatgcgttc attattccac 120
aatgctcact tgctcctagt gccattatc cacagttcct cctccagtt acttcaatgg 180
gcttcgaaca cccagctgtg caagcctaca ggctacaaca agcgcttgcg gcgagcgtct 240
tacaacaacc aattgccc aa ttacaacaac aatccttggc acatctaacc atacaaacca 300
tcgcaacgca acagcaaaaa caatttctac cagcactgag ccaactagct gtgggtgaacc 360
ctgtcgcta cttgcaacag cagttgcttg catccaaccc acttgctctg gcaaacaatag 420

ttgcatacca acaacaacaa

440

<210> 8750
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-A8

<400> 8750

cattaacata gatgacaagc tagagcgatc gccagtgtgc tatcgtttac tggcagatgg 60
gtgagcctct gtgtgctcgt gctcgtgttg ggtagcactg cattagagct gttcattgaa 120
catacaacgc gaagttgatg gacaagatgt gcttctgcat attgacaaca tttttcgttc 180
tactgacgta aactatgaag tgtctgatgt tctcggacgt ctacaatctg ttgcgggata 240
ccagtcacac cttgcaactg atcttgtacg actgcaagag tgtattacta caaccataca 300
aaggatctat tacatatgtg cacgacattt actagcctga ctatgacttg tcggatcctg 360
gtactgttac tacttttgcc aatattgatg ctac 394

<210> 8751
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-H11

<400> 8751

gcaaagcggc agtgcgtaga gaggatcgtc gaacagaaca gcatgaagat ggtcatcgtt 60
ctcgctcgagt gcctggctct gtcagctgcc agcgccctctg caatgcagat gccctgcccc 120
tgtgcggggc tgcagggctt gtacggcgct ggcgccggcc tgacgacgat gatgggcgcc 180
ggcgggctgt acccctacgc ggagtacctg aggcagccgc agtgcagccc gctggcggcg 240
gcgccctact acgcccgggtg tgggcagccg agcgccatgt tccagccgct ccggcaacag 300
tgctgccagc agcagatgag gatgatggac gtgcagtccg tcgcgagca gctgcagatg 360
atgatgcagc ttgagcgtgc cgct 384

<210> 8752
<211> 417

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-057-Q1-K1-F5
 <400> 8752
 cggacgcgtg ggggaggttc agtgatgcgt ctgtccagag tgatatcaag ttgtggcctt 60
 tcaaggtcat ttctgggcct ggtgagaagc caatgattgt tgtccagcac aagggtgagg 120
 agaagcagtt tgcagctgaa gagatctcct ctatggttct tatcaagatg cgtgagattg 180
 ctgaagctta ccttggttagc acgatcaaga atgctgtggt cacagtcctt gcctacttca 240
 atgactcaca gaggcaggcc acaaagatg ctggggatg tgctggcctt aatgtgctgc 300
 gtatcatcaa cgagccaaca gctgcagcta tcgcctatgg tcttgacaag aaggctacca 360
 gtgtcggatga gaagaatgtc ctcactcttg atcttgagg tggtacctt gatgtct 417

<210> 8753
 <211> 403
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-057-Q1-K1-F7
 <400> 8753
 gtagcaattg aggcggtaat tgaggatatg gtgctgaaac agcaaatatt ttctgacctt 60
 gagaagtatt gccatcataa ttgcatatct gcaacaaaca cttcaacaat agacctgaac 120
 ataattgggtc agaagacagc ttctgatgac cgcattgttg gtgcacactt ctttagtaca 180
 gctcatgtca tgtcactgtt ggaaatagtt tgtactcatc atacttcctc tcaagatatt 240
 gtggacctga ttgatttggc aaataaaaata cagaaaacac caatagttgt tggcaactgc 300
 acaggattcg ctgtcaaccg gatagtcttt ccttacgctc atgcagcttc tttacttgat 360
 gattatgggtc tggatgtgta tcacatagat catgtgatca cac 403

<210> 8754
 <211> 468
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-057-Q1-K1-F8

<400> 8754

ccgtccgaat tccggtcgcc cacgcgtccg caatgaattg catgctgcat gtgaatgccg 60

gaaaagtgga aagtgcaggt tgatcgtgtt aaatatggtc gtggctgcgt cagttgtaca 120

acatcatagg ctttgtttta tctccattta tgatattgaa cttatataac atggcagggtc 180

cagattccag cagctctgag ctatagaaaa aacggcttgg gggcgagacg gagagagggg 240

tatttgagcgt ataagtacct ttggatcgaa gagcatcact cgaagatgca tcgaggactg 300

ttctttcttct tcctcaagct gtagcctgtg ggaggagagg ccggagaggc ctcccatgga 360

gttccccac tcatcacttc ttgttggtcc cctgctagct gttcgttctc ctcagcaggt 420

agctagagat gatcttgcctn taattctgtg ctgatctctt actcgtcg 468

<210> 8755

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-G1

<400> 8755

cccacgcgtc cgcccacgcy tccggccacc accaccgagc ctggactacc gccgccggcc 60

ttcgccgata tcttcagcgg cgaacagcgc ccaccagatc ccgcccctgc gatggagtcc 120

gtggtgaacc cgaaggcata cccgctggct gatgctgcagc tgacgatggg tatcctcgat 180

atcatccagc aggccgcaa ctacaaacag cttaagaagg gagcgaatga agcgacgaag 240

accctgaata ggggcatatc ggagtttgta gtgatggcgg cggacacaga gcctctcgag 300

atcct 305

<210> 8756

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-G10

<400> 8756

cagcgtcggg acctggcaaa taactgccta gaggcggtat ttcagaggcg agatgagact 60

caagaagctg attgcagaca ttgaagccca gccaaagcatt gcggttcaga aagtgctgaa 120

atccttcttg cacaagatct acaagaggca gaagtagggg ctcttggata aacgagctca 180
ggagtcgtta ctccctcgca tgcttgacat aaccggactt cctcacctgg ttgctctagt 240
atgatgtgga gcgtctagtt aaaaaaaatc gatgtagtat gaagcacctt gctgctctga 300
atattaacag gcaattaagg caaggtgctg tttcggtttg gtggaccgca tgttgacagat 360
aataaattag ttgatttgtc 380

<210> 8757
<211> 385
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-057-Q1-K1-G12
<400> 8757

ccacgcgttc gcgaatgctc cacatgatct ctatgatagt tactacaaca gttacaagtc 60
aaacctgaag ttgtatgtta tgagagtttt catctctgac gaatttgatg atcttcttcc 120
caagtacctt agctttttga agggatttgt tgactcggac acgctgcccc tgaacgtgtc 180
acgagaaatg cttcaacaac atagcagtct caagaccatc aagaagaagc tgatccgcaa 240
agcccttgac atgatcagga aacttgctga agaagaccct gatgagtaca gcaacaagga 300
taagacagat gaagagaaaa gcgagatgga ggacaagaag ggcagttcgc caagttctgg 360
atgagtttgg caaatcaatc aagct 385

<210> 8758
<211> 433
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-057-Q1-K1-G2
<400> 8758

gaaaaaaaaa aaaaattaaa tttaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ataaaaaggg 60
cgtgtcgttc tcgtatctta ttttttttct taattatatt ttatttttta ttttttttgt 120
ttaatttttt tttctttttt attttttttt atcttttttt taatttttta tttttttatt 180
ttttcgtttt ttattattaa cttttttgta ttttttcatt ctattttatc tttattttat 240
atagtttctt tttttcatat tttttgctct tttttttaca ttttttttat tttaaatctt 300

tttatttttt tttctttatt tctttttttt tttttctcct ttttttattt tttttttttt 360
 ctttttttat ttttttcttt tttttttatt aattttttta tttttatttt tttatttttt 420
 attttctttt tct 433

<210> 8759
 <211> 390
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-057-Q1-K1-G4
 <400> 8759

cacttctcca ggtaaggaaa gtgttcgtcc tcatggcgcc gccgcagccg aagtcggggc 60
 tcttcgtggg catcaacaag ggccatgtcg tcaccaagcg cgagctgcct ctgcgcccgt 120
 cccaccgcaa ggggaaagca acgaagaggg tgtccatggt caggggcctg atcagagagg 180
 ttgctggctt tgctccttat gagaagcgta tcaccgagct tctgaagggt ggcaaggaca 240
 agcgcgctct gaagcttgcc aagagaaagc ttggaactca caagagggca aagaagaaga 300
 gagaggagat gatgggcgtn ctcaggaaga tgagatcggc tggtagcgac actgacaaga 360
 agaaataaag catttcaagt tcatgaatgt 390

<210> 8760
 <211> 429
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-057-Q1-K1-G5
 <400> 8760

acggggccctt gctctcctcg gcccaccgat ccacgccccg cacgcacacg acccgagac 60
 cgcaccctgt cggcgagctc gctcccgttc ccgtccgctg ctctccgctc gacgccgccc 120
 tcttccgcgc agctagtgtc tacactcccc gcgacgatgg cggaggactt ggttttggac 180
 acggcgatcc gagactgggt cctgatcccc ctctccgtgg ttatggctct catcggcgtg 240
 ctccgctact ttgtctccaa gctcatgcgc tccccggcga cctctgcgtc tcccgacccc 300
 aagctcgtaa aggaagggca ggtggatcatc aaggcgagga acctgaggac caacgcacag 360
 gtcacccccg ccaaggcttt aaggcacgca agggttatta caccaacgag gaaaatggat 420

tacttcatg

429

<210> 8761

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-G7

<400> 8761

cggacgcgtg ggcggacgcg tgggttgcca agaagtacca tgctttcttg gcatcagagg 60

ccatcatcaa gcagattccc cgtctccttg gtcctggtct caacaaggca ggcaagttcc 120

cgacctggt tactcaccag gaatccctcg aatccaaggt gaacgagact aaggcaaccg 180

tcaagttcca gctcaagaag gtcctttgca tggggcgtcg cgtcggcaac ttggcgatgg 240

aggagaagca gatccagcag aacatccaga tgagcgtgaa cttccttggt tcccttctga 300

agaagaactg gcagaatgtg aaatgcctct acgtcaaaag caccatgggg aaaccataca 360

gggtgttcta agtatgctct tttgtgaagt ctgct 395

<210> 8762

<211> 289

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-G8

<400> 8762

ctgccctaag aggtgttagt cccatttgca ttacagaaaa aaaaagtaga catagtagta 60

gtcggcatca acacggggcca cgttgtcacc aagcgcgagc tgcctctgcg cccgtcctac 120

cggatgggga acgcatctaa cagggcgctc atgggtcatgg gcctcatcag agaggggtgct 180

ggctttgctc ctcatgagaa gcgtatcacc gagcttctga aggggtggcaa ggacaagcgc 240

gctctgaagc ttgcccagaa aaagcttgga actcacaaga cgtgcctta 289

<210> 8763

<211> 338

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-057-Q1-K1-H1

<400> 8763

gggagaattt ggttgtgagg gagaatctga gtatgcgtgg gccgtatagt ggtggcctttg 60
gagggatttc ctttcgcggc gacatggaca ttgcactggc tcttcgcact atcgtcttcc 120
ccaccgcac tccggtttgat accatgtact cgtacacaga cagtaagtcc cgacaggagt 180
gggtggctca cctccaggcc ggagctggca tagttgctga tagcaaaccg gatgacgagc 240
accaagagtg tataaacaag gctgcagggtg ttgctcgtgc cattgacctt gctgaatcta 300
catntctaga agactagtct agtctaata atgaaatg 338

<210> 8764

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-F4

<400> 8764

cggacgcgtg ggcggacgcg tgggtttttt tttttttttt ttagttccca gcacgacgtc 60
atatcacaaa ctcgtattta ctgacgaaca aacgacacat cacacatcaa ggccaacagc 120
agcagatgat aaaccacggg aagcacagat aaaactaggg caggggaagg ggtggaatag 180
ctcacatgcc acgccccatg gtctgctcca tgggcggcat catgacaaa acggagtgcc 240
cattgttgaa tccaggggtg ggaaccctgc ggcgacgtc gcgaccctcc tggcagaggg 300
cgcacgggtg gcagaggtag tgggttgcaa ggtcacaggc 340

<210> 8765

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-D9

<400> 8765

cataaagctg ctgttctttg tgttcagtgg tcacctgaca gagcatctgt ttttgggaagt 60
tctgcagaag atggtttctt aaacgtgtgg gatcatgaga aggtggggaa gaagaaaaat 120
tctaattgcc cagccgggct tttctttcag cacgctggtc atagggataa gattgtagac 180

ttccactgga attcgtcaga tccttggaca attgtcagtg tctctgatga tggcgagagc 240
 actggtggag gtggaacact gcagatttgg cgcattgagtg atttgatcta ccgcccagag 300
 gatgaagttc ttgcagagct ggagaatatc aaggctcatt tggccagctg tgcaccgaat 360
 aattgagtca tgtgggttac ctgctgaatg caatcctgtg gaaac 405

<210> 8766
 <211> 374
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-057-Q1-K1-E1
 <400> 8766

cccacgcgtc cgcaaagcac tggaagcatc cattctaaga aatgaggggtt catgggtctgg 60

ttcatctcat tcctcagccg ctgaaagaac actgcccttc caagttaaag gtggtgagtg 120
 ggaaatcgac aaacgacttc tgaagatggg agggatgggt gcttctgggt cttgtgggga 180
 cttgtatcac gggacttacc ttggtgagga tgtagctgtt aaagttataa gagctgagca 240
 tttgaataag aatgtttgga acgagtttac gcaagaagta tatatactaa gagaagttca 300
 acataaaaaat gttgtgcgat tcattgggtgc atgcacaaaa ccacccatt ttgcataatt 360
 acaggataca tgtc 374

<210> 8767
 <211> 395
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-057-Q1-K1-E12
 <400> 8767

cccacgcgtc cgatttcctt tagccactga tcaagtcaat agagactatg ggcaggctgc 60
 acatccaatt gttcaacaaa actcagttca atcccctaca caatctgcac ccaggatgcc 120
 tgcccagatg tttggtgcaa aattcagcaa tagcagtaaa atatcaccag cacaacctac 180
 aactattctg ggtgatgaca ctgaaatttc ttcacctagt ggatcaaaca aatatgattc 240
 tcggttaaca attaaggggc aacctgatga ccaaggaaca gagcattctt cgtttctccg 300
 tgggtggggct catgttcttg gggctacagg tgcaatgggc attaaacttg gtgatcaaaa 360

tttccatggt accccagcat tgctgccagt tatgc

395

<210> 8768

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-E3

<400> 8768

cggacgcgtg ggcggacgcg tgggagcgaa acgacgctgg gtggtgtgat gtttgcaggt 60

cgtggtccac aggctgccgg agcatacagc agttcatttt caattcttat tatcatatat 120

tatggaagaa gaaatgaaca tcttcaggat tgaacagtgt cgcgaaattg tagatgatgg 180

ttccacaatc ccaatgggac cgacagacaa agagacatgc tgcttcctgc tgtgagtttt 240

gtattgcaga cgacactggt tatgtggagt taaaaaaaaa tatatacgca aaaaagactt 300

ggaa 304

<210> 8769

<211> 236

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-E4

<400> 8769

gccacttcca ttattacaca ctgcatataa cgcgttacag atacgggcat ttgaacacgg 60

atctgtgcaa gcatataggc tacaacacgg acatgttgcg agcgtcgaat atcaaccaag 120

ttcctaattt caacagcgat ccttaggaca tctaacaata cagaccatgg tgaccgcgag 180

cgacaacaat ttgtaccgcg ccgaccacct atataggggtg aactcctgcc gtctac 236

<210> 8770

<211> 403

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-057-Q1-K1-E6

<400> 8770

cggacgcgtg ggagcccgag cagcaggatt caccgaagag agtgggacgc tgggtgatat 60

atgggagact gtatcaaaca gtgatcttgt tttgctactg atatctgatt ctgctcaggc 120
 tgataactac gagaaaattt tctcgcacat gaaaccaaac agtattcttg gtttgtcaca 180
 tggatttctc cttggacatt tgcaatctct gggttttgat ttccctaata gcatcagtgt 240
 gattgctgta tgccccaagg gaatgggccc atcagtcaga agactttatg ttcagggcaa 300
 agagatcaat ggtgctggta tcaatgctaa gcttgctgtt canccagatg ttgatggaag 360
 ggcaacagat gtagctctag ggtggtcagt aacttttaggt tct 403

<210> 8771
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-E8

<400> 8771
 cagaaacaca ccaagcgaag ctacctagca acgacttaac aacaatggct accaagatat 60
 tagccctcct tgcgcttctt gccctttttg tgagcgcaac aaatgcgttc attattccac 120
 aatgctcact tgctcctagt gccattatac cacagttcct ccgaccagtt acttcaatgg 180
 gcttcgaaca cctagctgtg caagcctaca ggctacaaca agcgcttgcg gcgagcgtct 240
 tacaacaacc aattaaccaa ttgcaacaac aatccttggc acatctaacc atacaaacca 300
 tcgcaacaca acagcaacaa cagttcctac cagcactgag ccaactagat gtggtgaacc 360
 ctgtcgcta cttgcaacag caggtgcttg catccaaccc acttgctctg gcaaacgtag 420
 ctgcatacca acaaca 436

<210> 8772
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-E9

<400> 8772
 ggaagtcgtg attgctaaga tggactcgac tgccaatgac gttcccagtg agtttgacgt 60
 ccaaggctac ccgaccttgt acttcgtgac cccgagcggg aaggtgacat cctacgacag 120
 cggcaggacg gcggacgaca tcgtcgactt catcaagaag agcaaggaga ccgcagccgc 180

cgccgccacc accacccagg tgccaccggc atccgagaag gcagccgccg ccgagcccgt 240
 caaggacgag ctgtgagcat ccaaggtgtg gacggctgtg gctgcgatg cgggaggaaa 300
 acctggcgct aacgtgcctc caacgcctag tttttgctgg ggaccagagg gagagagaga 360
 gagggacgga gttagagaga gaggggatct gcgacgtgtt tt 402

<210> 8773
 <211> 307
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-057-Q1-K1-F10
 <400> 8773

gggacgcgtg ggggtgtaaac ccaattcttt aaccctacag gatccaggtg gcatgagcat 60
 acctaagaca ccgctggaga gatgtactga gtaagaaggg aagttattgg agcttgtgag 120
 cattgagctc ttggatctaa cacgcgagcg aaccagagag ccatgaacct atcaagcaag 180
 cgacatcctg gcctataaca gagacatatg ctaacacact catggagcag atgtgattct 240
 cgcatgaagg aaggtgtgct tcatgatcat caaggcacta gaaccttaag ctttttttca 300
 aagtgggt 307

<210> 8774
 <211> 366
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-057-Q1-K1-F11
 <400> 8774

gggtggattct ccttcccctc cggttctggt tcgggttcaa gaggttctgc ggaatgggag 60
 ttcgtgggtg agcggatcga gatggcggcg tatgatgggtg agtaccgctg cttcgtcagc 120
 ggtctaattc gggccacgga cgaccacttc ctacacaacg ccttcagcac ctacggcgag 180
 gtctctgagt ccaagatcat acttgatcgg gagacgcata ggtcccgtg tttcagctcc 240
 aacaacttgt acacggacga ggcgatgcag aacgccatcg agggcatgaa cggctaggag 300
 ctggacagcc gtaacatcac cgtaaagcag gaccagtccc gatacgggtc ttgacgccga 360
 aaccgt 366

<210> 8775
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-F12

<400> 8775

gtgaaaaccc agctcttcaa ccatataggc ttcaacaagc aatcgcgga agcagcgta 60
ctttatcgcc cttgttggtt caacaatcgc cagccctatc tttggtgcag tcattggtac 120
aaaccatcag ggcacaacag ctgcagcaac tcgtgctacc tctgatcaac caagtagctc 180
tggcaaacct ttctccctac tctcagcaac aacaatttct tccattcaac caactgtcta 240
cactgaaccc tgctgcttat ttgcagcaac aactattacc atttagccag ctagctactg 300
cctactctca gcaacaacaa cttcttccat ttaaccaatt ggccgcactg aaccccgatg 360
cttatttgca gcagcaaata ctactaccat ttag 394

<210> 8776
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-D7

<400> 8776

agcagaagtt ggaaacagtt ttgctggctc aagtaggcta cacgatatcc gttttgtaga 60
tgaaaggata aaatacagca aggaggaatt tgtggagctg caaggccttg ctaaaccaaa 120
ttcgtaaatg cttggcgtgt ggcttccacc agaactgcga aggcccaaatt gatagtcttg 180
gatcttgatt ccttacgcat ttactgccag catatcataa tcttccttga gttattcttg 240
atatgacaga cttttgagaa ttaagcatca agcatgtcac tcagttccaa attatagttc 300
actttgggtat tgtcctaggt caaacttttc tagctttgac ctatgctttc aaata 355

<210> 8777
<211> 264
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-F2

<400> 8777

cccacgcgtc cgcacgcttg tatgttgga gattgtctcc cgcacccgt tctcgtgagc 60
tagaatacct tttcagcaaa tatgggagaa ttcgagaagt ggagttgaag cgtgactatg 120
cattcattga attcaggacc cccgtgaatc tgatgaatca caatacaacc taaaatggca 180
ggacgtcgat tggaacccca ttattgggtga aattgcttaa aggggtcctc gggggctctg 240
ggggtcacgt gattaccacc gaag 264

<210> 8778

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-B9

<400> 8778

cccacgcgta cggccacgcg tccgtgcaga tcaaattcat gttatcgtgg catctttgta 60
tcaaaaagat gcagaagaga cagttgatgg tattgaaaat acaactgcta cccagcttga 120
tgttgctgat attggaagcc tttcagatct tgtttctcag gttgaggttg taattagctt 180
gctgcctgct agttttcatg ctgccattgc acgagtatgc atagagttga agaagcacat 240
ggtaacggca agctatgttg atgaatccat gtcaaacttg agccaagctg ccaaagatgc 300
acgtgtaact atactttgtg aaatgggcct agatcctggc atagatcact tgatgtcaat 360
gaagatgatt gatgaagctc atgcacgaaa gggaaaaa 398

<210> 8779

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-C1

<400> 8779

atcatcatat caggaatgta tgaatgatga agctgcatac tgcaactatg ttatgagaga 60
tgcttatgat cttgtcacga agagccaagg gcaggatgca ttaaggaaag cactgtggga 120
gactcttgaa agtggtgaga aagaattgga gagataccta gaaaacgtta cccaacatgc 180
accttatgcc acttgaaagg atcactaatt aacctcctag acttatctgc taaggatgaa 240

caagatactt tcttgttctt tcaagatgca ttcagaactt ctgtcaaatt gtacatttat 300
agagatgaaa ccgatgcttg tcaaagata 329

<210> 8780
<211> 373
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-057-Q1-K1-C11

<400> 8780

cccacgcgtc cgccacgcg tccgctgacg cgtgggctgg cgaggggccc aatagtgtct 60
gcctggctgg ttgctgctca cctctctgct ccttccttcc ttccctccct cctccctcc 120

agagtccgga gcagagcagt caaccgggct gtcgtcgcca ttggtgcggt acgtgcgagc 180
ccgagcgggtg cgacgcaggg ggggaggggc cagtgcgaga gacgacacgc gagagcgaag 240
ccaagcgaag gaggagcttc ctggcgcgcg cggatcgcgg aggctgtata tatatagtcg 300
gagggcgcgc gctccggctc ggtaacgtgc tgcangtggg gtgtggcgca tggcaggatt 360
aggcaaggca gcg 373

<210> 8781
<211> 357
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-057-Q1-K1-C2

<400> 8781

cggacgcgtg ggcggaacgcg tgggcgcgcg gctgctcgtg ctagggtctt ctggcgcgcc 60
cgccgcggat gtggccaggg tgcccgttga cttcatcgag ctgctcggga tcaggcagag 120
cctctctccc tccaggaaca gcggcctgct caacatgctc agcctcatga agcgcaaggc 180
gcttgagatc gccggtgggtg actcaacgtc aagtcagcaa tcagtccaag aggttaccag 240
accgcgtcta gtgaacggga aagagcctga atttcagct ttcgaggtgc aaganaagga 300
aaaggaaagg ccacaggatg canagaggcg cgacgaggat gaacaattgg gtcaact 357

<210> 8782
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-C5

<400> 8782

cagctaagcc cgggccagca gttcagatcc tgcggcgtag gcagcgtcag cagcccgttc 60
ctgagccagt gcgtcgagtt cctgaggcac cagtgcagcc cgacggcgac tccctaccgc 120
tcgccacaat gccaggcgct tcaacaacat tgctgccacc agatcaggca ggtggagccg 180
ttgcaccttt accagacgac atacggtgtg gtcctgcagt acttcctgca acatgaaccg 240
tacggcgagc tagcggcact gatggctgcc catgtagcgg caacagtgac tgctatgtgc 300
agcctgcaaa tgcagc 316

<210> 8783
<211> 399
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-057-Q1-K1-C8

<400> 8783

ccacggtgga gaacgcgcgc gccttcgtgt cgggcctcgt gtcccacctc cgctccctgt 60
ccggcacgcc gcgcgcgccc ggcaagtcgg tggagacgta catcttcgcc atgtacgacg 120
aggacctcaa gcccggaag gcgtcggagc ggtacttcgg gctgttccag accagcctcg 180
ccgagacgta cccgacgggg ttgctcagga acggcacggc cggaccgata ccagccacgg 240
cgccggctcc ggcgccaacc acgtccgccg cgacgctgaa gccaacgcca gggcagcaga 300
cacaggtgac tccagcgcag cagggtcga cggcngcagc tgggccttcg gcattctgcag 360
gccggggccag ggcggttacg tcgagaggga ccactaccg 399

<210> 8784
<211> 203
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-C9

<400> 8784

gaacgtggac aacgcttgcg cctttttgtc aggcctcgag tactaggggc gctggctgtc 60
cggcacgccg cgcgcgctct gcaagtcggt ggagacgtac atcgacgcca tgtactaaga 120
ggacctcaag cccggcaagg cgtgagagca gtacttcagg ctgatccaga ccagcctaac 180
ctagacgtac tcgacggggg tgc 203

<210> 8785

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-057-Q1-K1-D1

<400> 8785

gagggataat atcttggttag ccattgttgt taggttggtg cgctttttgc gagcgcagca 60
aatgcgttca ttattccaca atgtcactt gtcceaagtt ccattattac acagttcctc 120
ccaccagtta cttcaatggg cttcgaacac ccagctgtgc aagcctatag gctacaacaa 180
gcaattgcgg cgagcgtctt acaacaacca atttcccagt tgcaacaaca atccttggca 240
catctaacaa taaaaccat cgcaacgcaa cagcaacaac aattcctacc agcactgagc 300
cacctagcca tgggtgaacc tgccgnctac ttgcaacagc agttgcttgc atcaaacca 360
cttgctctgg caaacgtagt tgcaaaccag gcacaacaac agctgcaaca agttctgcca 420
acgctcagtc aactag 436

<210> 8786

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-D10

<400> 8786

tgcagctgca ccatcaactc gggcatatgg ctgcttccta cccccagcaa catcttccat 60
cccatctagt atcatcaatg aactctgctg ctcatgtaca gtagcaacaa ctactaccat 120
tcaggcagct agctgatgag agccctgctg cttcatgac acaacagcag tagctgcctt 180
tctacctaca cgctatgcat agcgctttca ccctattacc actgcaacaa ttgctgcca 240

tcaaccaact tgctatgacg aaccagctg tgcactacca acaacccatc attgagggtg 300
ccctctatt 309

<210> 8787
<211> 241
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-D11

<400> 8787

ggcatacact caatcctatt tgagattgca gaaccatcac ccacccacgc aacaggcaat 60
ccttaagcgt aaactgaaca accagaactg cataatgaga gacctaactc acatctaaat 120
catcatgac aatgactact acctaactcg cacacttgtc atgccagcag tattaatgaa 180
tcgacctaag cactagttag acacaatttc attatagatc cccatactta catggaattt 240
c 241

<210> 8788
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-D2

<400> 8788

aagacaccgt cgctctcttc gcgtgcgagc gccgccactg catcttccca tcgatctggg 60
ccgaccccg c atcttcccat acgagctgtg tttctccaag ttcgctgctg gccatatcga 120
cgctgcatc ctcgatccag acgagtgcgt gtgccatctc cacgggtctt cgacagattt 180
agcaagaatg tttggaagag gatctgctat gatgaacttg atccaagctg caactatgaa 240
aaaaatatcc cccagatcta ctactaacia gcgcacgaag agaacatcac caaaagttgg 300
tcgtcttaga gcaaactgga atagtggact agaaaagggg ttag 344

<210> 8789
<211> 390
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-057-Q1-K1-D3

<400> 8789

cttccccgcg tgccgcgtca aacaaatcta ggcttccaag cgagcgaaag ccttcctgcg 60
ccagccgata taccaacatc ctctccgccg attggaggca cctgcgaaga tgccgcagcg 120
gcactcaaag aacaacaacg acctcgctt cttcacgtac gaggagaagc ggaagctcgg 180
gtacggcacg cagcgggagc gcctggggaa ggactccatc aagcccttcg acgcctgctg 240
cctctgctc aagccgctca tcgacccgct ctgctgcccc aagggccata ccttctgcaa 300
ggagtgcata cttgagtgcc tncctgcccc gaagaaggac atcaagcgta agctagcagc 360
tcacgaggcc cagaagaagc angagaagga 390

<210> 8790

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-D6

<400> 8790

gctgcattga actctgctgc ttatttgcaa caacaactac cattcagcca gctagctgct 60
gcctaccccc aacaatttct tccattcaac caactggcat cattgaactc tcctgcttat 120
ttacagcagc aacaactact accattcagc cagctagctg gtgtgagccc tgctgccttc 180
ttgacacaac aacagttatt gccgtttctac ctgcacgctg cgctaacgc tggcaccctc 240
ttacaactgc aacaattgct gccattcaac caacttgctt tgacaaaccc agcagcgctc 300
taccaacaac ccatcattgg tggcgccctc ttttagattt cttatgagtt atagttcaat 360
aataaagttt tt 372

<210> 8791

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-A3

<400> 8791

aggggaacaga actttatggc agccaacgag atcattgagc tcttctgcga gctgattggt 60

acacgccttc ctatcatcgc aaaacagaag gaatgtccag cagacttgaa agaaggtatc 120
 tgcagtttga tatttgcagc tccaaggtgc tctgaactcc ctgaacttgg tcgcatacgt 180
 gacatttttg aaaagaagta tggcaaagat tttgtttctg ctgcagttga cttgcgcca 240
 gatgctgctg ttaacaacct tctgattgag aagctgtcga ttaagaagcc ttccgggcaa 300
 attaaactga aagttctgaa ggatatagca aaagagcatc agattgattg ggataccact 360
 gagagtga 368

<210> 8792
 <211> 388
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-057-Q1-K1-A4

<400> 8792
 gtgaattcgg cccgaggttg aaggaccata tgcagtattg tgtaaatcat ccagaggaaa 60
 ttaacaagct ctccaaggtt aaagcccacc tatcggatgt caaagggatc atgatggaca 120
 acattgaaaa gatattggat cgcggggaga agattgagct tttggtgggt aagacagaga 180
 ccctacagtc acaggcggac agcttccaca ggcatggcag agagttgagg cgaaagatgt 240
 ggcttcagaa cctgaggttt aagctgatgg tgggtggcgg cattgcggct ctgaccta 300
 tcatttggt gatggtctgc aagggttca aatgttagag cacaccaagt tgctcgctt 360
 ttttttttct tttcaagcgt ttgatatg 388

<210> 8793
 <211> 344
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-057-Q1-K1-A5

<400> 8793
 cggacgcgtg ggtgagccaa gagctactag gatctttcat gctgaacttc tggtttggg 60
 ttggccacat acatcatcca aaaaacttta ttattgaatt acaactaata agcaatctaa 120
 aagagggcac caccaatgat gtgttggttg taggaggccg ctggatctgt caaagcaagt 180
 tggacaaagg gcaacaattg ttgtagttgt aacagggttg cggggttagc cgcaaactgc 240

tggtagaaag gccgcaactg ttgctgtgtc aagaaggaaa cacggtttgc tgcaactagc 300
 tggctaaatg gtagtagtat ttgctgctgc aaataaacag cggg 344

<210> 8794
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-A6

<400> 8794

agcttccctt gttcccccat accttacatc aatgatagct tcagtatgtg aagaccacgc 60
 tcttcagccc tataggctcc aacaagcaat cgcagcaagc aacatacctt tatcaccctt 120
 gttgatacaa caatcgccag ccctatcttt ggtgcagtca ttggtacaaa ccatcatggc 180

acagcacctg cagcaactcg tgctacctgt gatcaaccaa gtagctctgg caaacctttc 240
 tccctactct cagcaacaac aatgtcttcc attcaaccaa ctgtctacac tgaaccctgc 300
 tgcttatttg cagcaacaac tattaccatt cagccagcta gctactgcct actctcagca 360
 acaacgactt cgtacattta accgaatggc cggactgaac cccgctgctt atttgcagca 420
 gcaaatacta c 431

<210> 8795
 <211> 323
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-A7

<400> 8795

ggacatagac agtgggaatcc aatatcatca atctatcaac caaggcgacc gatataggcc 60
 ttctttcttat gctccttgct atttctatgt gtattactct cgcgacaatg tatcttcaat 120
 gcgctcaagc tactatcact gtgctctgaa ctccatacac ttcatacatt acagcacctt 180
 tatgagaaaa cccatctctt aaaccctata tgttctaaca atcaacttgca cccagatgct 240
 tacgttaata accctcggat cgacaatctg cagccctata tttcgtgcag tcattgttac 300
 actccaagac tgcacagata tat 323

<210> 8796

<211> 306
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-B1

<400> 8796

ttccgaggct acgacgtcac gcgacaagct ctaatctttt cgtttttgct actgttactg 60
gttttaattg tcaactcggag tctgggaact atttatactt tggttccttt ttagttgtca 120
agtgcattgt tctgaacatc attggtcata ctgtactatc caattgctgt taaaacattt 180
tttccaataa ttcgtatggg accatttggt aaaaaaaaaa acataaaaaa aaaaaaaaga 240
aaaaaaaaatt aataataata atataaaaat aataaaaaata aacataataa aaattataaa 300
gcataa 306

<210> 8797
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-B11

<400> 8797

agccttctat cagtaccatc aatcatcatt catcttagta gtataggggc caaatgaaat 60
ctgcaacatc aattatctaa ctccaaaaac catgaagctg gtgcttggtg ttcttgcttt 120
cattgcttta gtatcaagtg tttcatgtac acagacaggc ggctgcagct gtggtcaaca 180
acatagccat gagcagcaac atcatccaca acaacatcat ccacaaaaac aacaacatca 240
accaccacca caacatcacc agcagcagca acaccaacaa caacaagttc acatgcaacc 300
acaaacacat cagcaacgac aag 323

<210> 8798
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-B12

<400> 8798

gaaggatcca ggagacttga gtggattcta aagaagattg ctgggtgggtc tgagcgcacc 60

ctccgtgcaa agctgacatt ttctcaggag tcacatggga atatcacaaa ggaagctggc 120
ccagtgaaca tgaatttcac tataccgatg tacaatgcat caaagttgca ggtcaggtat 180
cttcagatcg caaagaaatc gaaggcatac aacccttata gatgggtgcg atacgttaca 240
caagccaact cctacgtagc tcgtctatga ggaatcagca tctgtactct tgtttgcagt 300
ccatttttta tgggtgtaat atttgagcgt tatcatggac atagtggcgt gtattgtgta 360
actgtatatt gaggttcgca tacc 384

<210> 8799
<211> 229
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-057-Q1-K1-B2

<400> 8799
aacaacagtt gttgccgttc tacctgcacg ctatgcctaa cgctggcacc ctcttacgac 60
tgcaacaatt gctgccattc aaccaacttg ctttgacaaa ctcaacagtg ttctaccaac 120
aaccatcat tgggtgtgcc ctcttttaga ttgcttatga gttatagttc aataatgaag 180
ttttttggat gatgtttgtg gcgtcccaga aataagaaag tacatttct 229

<210> 8800
<211> 302
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-057-Q1-K1-B4

<400> 8800
ctttctgcaa gtgctgctac ggcgaccatt ttctcgcaat gtcacaagc tcctataggt 60
tccgtttctc ccccgtaact ctaccagtg ttgtcttcag tatgtgaaaa cccaattctt 120
caaccctaca cgatccaaca tgcaattgca tcaggcatct tacctttatc acccttgttc 180
ctccaacaat catcagccct attacagcag ttacctttgg tgcatttatt ggcacaaaac 240
atcagggcac aacaactcgt gctagcaaac cttgctgcct actctcagca acaacagtta 300
cc 302

<210> 8801

<211> 217
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-057-Q1-K1-B5

 <400> 8801

 ccgggttcgga ttccagggtac gacgtcacgc gtcacgctct aatcttttcg tttttgctac 60
 tgttactgggt tttaattgtc actcggagtc tgggaactat ttatatcttg tttcctttta 120
 gttgtcaagt gcatgtttct gaacatcatt ggtcatactg tactatccaa gtgctggtga 180
 gacacttttt tctatcaatc gtgatgtaac agttgggt 217

<210> 8802
 <211> 386
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-057-Q1-K1-B6

 <400> 8802

 caatgatgac tggaagaaac gaaaggaagc acagagcctg aagaggctcg aggttaagaa 60
 gaagaggatt gagaggagga actctctcgc ctgcaacact tcaaaagaag ctgctgggca 120
 gagtccaaaa gagatgaatg caaactactga caaattagta agttctgatg aaactattgt 180
 cagcgcctaac gaaagtcata gcagtggcaa gcatctggtg aaggggcttc caccaaagta 240
 ccaggccaca attacatcag aagacagttc gtcagcaatg cgaaagaagc caaactcggc 300
 cttcaaagga acagccatca ctgaagagca gaactcatca tcgtctgttc cttccttcgg 360
 tgaagctata agtagcgtga cggcac 386

<210> 8803
 <211> 199
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-057-Q1-K1-B7

 <400> 8803

 gaataatcaa agtggcagcc taaacattgc tgagaggcca gaccacgtaa gggtaacgag 60
 aatacagtga aatgcctagc aatctgtagg gaaggataaa ctgaatgaac aagacaagga 120

cgacttacag gtggaccatc ccgtacttaa ccaggttaca cactttgagg ataggaaact 180
gactaccatc aaagctgga 199

<210> 8804
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-G5

<400> 8804

gtcagcgttg aagggctccc acttcattga attgtgcgct cagcggcata tgccttggat 60
tttcttcaa aacattactg gggtcatggt cggatcaaag tctgaagcta gtggaattgc 120
caaagctgga gcaaagatgg tcatggcagt ttctgtgct aagggtccta aaattacaat 180

aattgttggg ggaagttttg gggctgggaa ttatggaatg tgcggacgtg catatagccc 240
aaacttttta tttctttggc caactgctag gatattgct atgggtggca tccaggcagc 300
tggagttctc gctcaaataa aatagaacaa cataaggaga caaggagtgg agtggagcaa 360
ggacgaggaa gaagccttca aagc 384

<210> 8805
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-G6

<400> 8805

atattgagca ttcagaaaca caccaagcga agcgcactag caacaaccta acaacaatgg 60
ctaccaagat attatccctc cttgcgcttc ttgcgctttt tgcgagcgca acaaatgcgt 120
ccattattcc acaatgctca cttgctccta gttccattat tccacagttc ctcccaccag 180
ttacttcaat ggccttcgaa caccagctg tgcaagccta taggctacaa caagcgattg 240
cggcgagcgt cttacaacaa ccaattgccc aattgcaaca acaatccttg gcacatctaa 300
caatacaaac catcgcaacg caacagcaac aacagttcct accagcactg agccacctag 360
ccatggtgaa ccctgtcgcc tacttgcaac agc 393

<210> 8806

<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-G7

<400> 8806

cccacgcgtc cggttcttag atcgattgct cgccaggctg ttggcgagga gtcgtcgacc 60
ctcacggcag ccatgtctgt ggagctcatc ctgtggcttt tctccttcgt ctccgtcatg 120
gtcctcatcg gcctcaccgc ataccagctt atctgtctgt cagatttgga gtatgattat 180
atcaacccat atgattcatc gtctcgcatc aacgctgtgg tgctgataga atactcactc 240
caaggggccc tgtgtgcttc tttcctcttg acattgcatt ggttcccgtt tctagtcatg 300
acaccagtaa catactacca tgtcaaactg tatttggctc ggaacatct tgtagatgtc 360
actgaaattt ttagacaatt aagtgcagag aagaagtaca ggatgatcaa gcttgccttc 420
tac 423

<210> 8807
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-G8

<400> 8807

cggacgcgtg ggattacgtt aactcgaggg agatatcatg cgaactggtc ttggatgctt 60
atcccaaagg gtacacaatt gtgccaacta ccatccaccc tggggaggaa gcaccttttg 120
ttttgtcagt tttttcaaaa gcatcaatca gactagagggc tgtttaattc aagattgaga 180
tcccatgtgt ttggtggtag ctgcgtctgc tgggcagggg ttcttctcac ccgtgcacgc 240
aggatccagc tgtgggttct cggaactag ataatgggta taggaattgc ctctggaca 300
acttcaatca atcttgctgc atgcaagtac ataagttcgg ttgcttggtg cagaactgac 360
aaactgcaat gcttcttgtg ctgaagggaaggaggagaag gtatgatcca tggttctttg 420
gtagc 425

<210> 8808
<211> 439
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-G9

<400> 8808

cggcaccatc ctgaggctgt ttcggatctc ctcgggggtc caagacggca cagcaagtcg 60
ccgccacgct gcggacatgc gaggctgagt cccagagggc tcatgcctgc gccacctccg 120
agcaggcggc ggccgacttc gctgcctcct agctcggagt cagggccagc aagctggtcg 180
cgctcgtcac caccgtccat ggtgggaagg acgccactag atacgtggtg gcgccaacg 240
gcatcacacg catgggcaag gcggcaggct ccagagccgt agtgccgtgc caccgatgc 300
cgtaccggtt catggtccac tactgccacc agccggcgga cgtggaggcg ctccgagctg 360
agctgaccgg gctcggagac tgcggcgtga caaccacgat cgccatgagc cagccaaca 420
ccatgaactg ggacgatcg 439

<210> 8809

<211> 423

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-056-Q1-K1-H1

<400> 8809

ggccatggca aaggtggtgg aattgggcat gacatgggtg gtggattcgg caaaggcggg 60
ggtggtcttg gcggcggttag tggctacggt gctggtggcg gcgggggcct tgggtggtgga 120
agtggacatg gcatgggtgc cggattcggc aaggtggtg gtcttggcgg cggcgatggc 180
cttggcggtg gaagtgggca tggcatgggt gccggattcg gcaagggtgg tggcttggt 240
ggcggcggcg gcggaggtgg tggcggcggc gccggtgggt ttggcaaagg atttggttt 300
gggtttggca aaggcagcgg gttcgggtgt ggtggcgcg gtgggggcgg cggcggcatc 360
ggtgatcacc attgatacgt cagcatgcag catacgtctn ctatggttct atcacttact 420
ttt 423

<210> 8810

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-H10

<400> 8810

cggacgcatg ctcagactct ttcgcattcg cgtgggttta tcaacctcgg ggctacagga 60
accgtcactc ctatcacacc aggctccttt cgtgcatgcg caggcacaaa acatctacgc 120
acaacaacta caacaacttg ctctatgaaa ccttgctgtc tactctaagc agctgcactt 180
tcttgcatte aaccaacttg ctgcatagga ctctgctgct tacttgcaac aacaactacc 240
attcactcac atagctgctg cctaccggca ccaattcggt ccattcaacc aactgacacc 300
attgaactct gctgctcatt tacaacagca acagctacca ccattcacc agctagctga 360
tctgagccct gttgcctact tgacacagca acagttgatg ccgatctacc tgcacg 416

<210> 8811

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-056-Q1-K1-H11

<400> 8811

cggacgcgtg gggcaggatt tcataatfff tggttcagca gttttggaga tatcgaattt 60
taaagttaac catactgctg tctaaaatag attcagtcag ttatcttgct agatgtttta 120
gaacttgtag atggcagaat ttaattatct attgaatact gaagttgtag agtattttgt 180
gtagatactc ctagagtatt tgtttgatat caccgctggt ttaattttta agatacaaaa 240
ttaacaaaca gcgttgctgc tgtatggcat ggggttcagg gtgggagtct ttccactggg 300
tcttggtttc aagtgtagga gtgttttggt gattgatggc aaatgtttgt gaaatatttg 360
tactaagttt tatgcccact agcangtggc tacactccag atcatgtcta gtacatttct 420
tctcttcgat gaa 433

<210> 8812

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-H2

<400> 8812

attccacgcc acgcagtcgc gggcattacg aaactggtgg aatcggtcat gacttgggtg 60
gtggattcag caaacgggga tggggctcttg tcagaggtag tggctacagt gctagtagcc 120
gcacgcagca cttggtggtg gaagtggaca tggcatgcct gccggattct gcaaggatgc 180
ttgtcttggc ggatgctata gccttggctg tgcaagtgga catcgcatgc gtgcctgatt 240
ctgcaagggt tgtggtcttg acggctgcag acgatgacgt ggttgctgcc acagatggtg 300
acttgtc 307

<210> 8813

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-H5

<400> 8813

cccacgcgtc cgcccacgcg tccgtgtgat tgctcagcag tgcagtagtg atcttctgca 60
aggggagttg gagaggactc gattgaacat agcctgtttc atggagtcga cccttcaacc 120
aacagctgcg ccagcaggcc caaagcctgc cgcacattct tcttaccaag cacagcatgc 180
tcccgtccaa acgtcctcgc ctagtttttag aaggcagcag actggtacaa gttcccctgt 240
agtctccagg cggcgcgggt gagcttagtg catcttccca tcattggcgt agcctcttcc 300
cggagtttcc ttccttttcc cccctcacat gtgtgctttt tttttaatct cttgtaattg 360
tcatectgtt gtcattgtgt acgaatttcg atccattctt ttggtgttgt ataagatgaa 420
a 421

<210> 8814

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-H6

<400> 8814

agaagacttt cttccagaaa cctgaatcag aggcattgag ctccaggctg aaaaatgctg 60
caaactctga actttggtac accacttttg tccgggatga ttctgatga taactcaaca 120

aataatatga gacccactcg tctttccttg attgatttta ttcagatgta cgcattcctc 180
 ttgcatgtaa tattcacgag gtgagtgtag atcatttgac ttgtttatca tcacacagag 240
 aaactgcttg cttcaaccgt gttatatggt catgatggca tctctaaaat a 291

<210> 8815
 <211> 375
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-056-Q1-K1-H8
 <400> 8815

ccgagccggc cgtgtccgtg cagctcggcg accacggcca cctcgcttac tcccacgcca 60
 accaggcgct gctccgcccc aggtcggtcg cggccaagga cgagggtgtc tgctgttcg 120

aaggggtgct ggacaacctg ggtcgtctga gccagcagca cgggctgtca agcaagggcg 180
 ccaacgaggt gctcctcgtc atcgaggcct acaagacgct gcgcgaccgc gcgccctacc 240
 cggccagctt catgctcgcc cagctcaccg gctcctacgc cttcgtcctc ttcgacaagt 300
 ccaccaactg cctgctagtc gcatccgacc ccgagggcag ggtgccgctc ttctggggga 360
 tcaccggcga cggct 375

<210> 8816
 <211> 436
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-056-Q1-K1-H9
 <400> 8816

cgacaccatc ctgaggatgt ttcggatccc tcgggggtcc aagaaggcag agcaagtcgc 60
 cgccacgctc cggacatgcg aggctgagtc ccagaggct catgcctgcg ccacctccga 120
 gcaggcggcg gccgacttcg ctgcctcctc gctcggggtc agggccagca agctggtcgc 180
 gctcgtcacc accgtccatg gggggaagga cgccactaga tacgtggtgg cgcccaacgg 240
 catcacacgc atcggaagg cggcaggggc cgcgccgta gtgccgtgcc acccgatgcc 300
 gtacccgtac atggtccact actgccacca gccggcggac gtggaagcgc tccgtgttga 360
 gctgaccggg ctcggagacg gtggcgtgac aaccgcgac gccatgtgcc acgccaacac 420

<210> 8817
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-A1

<400> 8817

cccacgcgtc cgtttttttt tttttttttt tttttagaat ctggaaatgt aactttctgat 60
ttctggttgg ccacatacat catccaaaaa actttattat tgaattacaa ctaataagca 120
atctaaaaga gggcaccacc aatgatgtgt tgttggtagg aggccgctgg gtctgtcaaa 180
gcaagttgga caaagggcaa caattgttgt agttgtaaga gggttgcggg gttagccgca 240
aactgctggt agaaaggcag caactgttgc tgtgtcaaga aggaagcacg gtttgctgca 300
gctagctggc taaatggtag tagtatttgc tgctgcaaat aagcagcggg gttcagtgc 359

<210> 8818
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-A10

<400> 8818

gtcatacagt gttccctttt tcatcacacg tttccgtgag gcgctgatgc attacggtgc 60
attggttgac atgctagaga caactgtccc actggatgat gcacagcgag cactcataga 120
gagggaaatg tttggccgat aggcactcaa tgttattgca tgtgagggtc catacagagt 180
tgagagaccc gagtcatata aacagtggct ggtgatgaac ctgagggtg gatatgttca 240
agccccgttt aaccaagaag acgtgatgaa agcctatgac aaatttgaag acatttatca 300
cacggacttt gtcatatatg aagacagcgt at 332

<210> 8819
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-G4

<400> 8819

caggaaagtg ttcgtcctca tggcgctcc gcagccgaag tagggcctct tcctgggcat 60
caacaagggc catgtcgtca ccaagcgca gctgcctctg cgcccgctcc accgcaaggg 120
gaaagcaacg aagaggggtg acatggtcag gggcctgatc agagaggttg ctggctttgc 180
tccttatgag aagcgtatca ccgagcttct gaaggttggc aaggacaagc gcgctctgaa 240
gcttgccaag agaaagcttg gaactcacat gagggcaaag aagaagagag aggagatgat 300
cggcgctctc aggaagatga gatcggctgg tacgcacact gacaagaaga aataaagcat 360
ttcaagtaca tgaatgtggc aaccagagat tatcaactgt gttcttt 407

<210> 8820

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-F1

<400> 8820

ctagcaacat agaaagcaca atagtgtacc aacaatggca gccaaaatat tttgcctgct 60
tatgtctcctt ggtctttctg caagtgtctg taccgcgacc attttcccg c aatgctcaca 120
agctcctata gcttcccttc tcccccgta cctctcacca gcggtgtctt cggtatgtga 180
aaaccaatt cttcaaccct ataggatcca acaggcaatc gcagctggca tcttaccttt 240
atcaccttg ttcctccaac aatcatcagc cctattacag cagttacctt tgggtgcattt 300
attggcacia aacatcaggg cacaacaact acaacaactt gtgctagcaa accttgctgc 360
ctactctcag caacagcagt ttcttccatt caaccaacta gctgcattga actctgctgc 420
ttattttgc 428

<210> 8821

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-F11

<400> 8821

gtgtcgacca ccatgagtgg aaccccatgg tggacgtgca cctgccgtcg gacggctaga 60

ccaactactt gctcgagaca ctcgaggctg gaaagcggca gagcacggag gccctgctat 120
 agcagctgtt cctggaagtg cacgacgacg tgcgattgct ccacttcatg aaacgtcttg 180
 atggacagaa tgtcgtgtac atcatgcggg acgcgatggc agtggatcgt ggatgcagga 240
 cgtgcagatg atgatgctag gcacctgacg cgcagacatg gaacgaatgc tgcagcactc 300
 agagcgtgag catactaaca cgtgccgctg atagatcggg ttctctgagc ctatggtgca 360
 tcgtatcaca gcagccgcag acgtgctgat gataccaact g 401

<210> 8822

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-F12

<400> 8822

gacctgtacg tgatgaatgt taatccttgg ctgtgatgaa aagttttagt gtcagtggtt 60
 cagacccttc aaaacaggag aagtttttgg catacatggc cccagcaccc catgagctcg 120
 ccagagactt ggatgatgaa aacgatgata tccagtattc ctggctaata gaatatcact 180
 gggaaagtgag aggagatgat aaagatgata ctacaacata ccttgtcaca ttgataagg 240
 aggaggggtgc aaaatatttg cctctcccta ctaagctagt ttgacagaag aagaacgcta 300
 aagagggggag gtctggcgat gaaattgagc attttccagt accttccctt attactgtga 360
 acaaaacagg tcatgtcggg accatggatc gcggagaatc ttctggcatg catgtgaatt 420
 caaagc 426

<210> 8823

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-F2

<400> 8823

cccacgcgtc cgcccacgcg tccggccccg atatcgtaac acattcacag gtcgggtcc 60
 cttctggttg tgcgttgcac tcctttctgg tctgatgcat ctcatattc tccatcggtg 120
 atgattggta atccgatatg ggggggtgcaa gtatagttac gttgtacagg aacgatgcat 180

tgcagtgtac atattccaaa atgaaatcat ttacacact tcgaaggga tcgatgtctg 240
 aagctggttt tctcgtgcaa tactttcaga gtcaacacta cactgccctg gttatccatt 300
 cagcatgtat ggtggtgtcc aacaagacc cattccttgt gaaaaaatct tagcactggc 360
 tccttcaata cgaaagaaa 379

<210> 8824
 <211> 403
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-056-Q1-K1-F3
 <400> 8824

atcaagtagg acccggtgca acgagccacc gttaattcc tagggttctt ggagtgttgt 60
 ttttttctct ctgcgtcgtc agtcaaaaaa agaaaaaaga aaagaaatgg tcaaacgcg 120
 cggacagtga gtttgacgt ctgtgtatct cggtgacctg tgtttttttt ttctctggag 180
 ggcttttggt ccgcatgtaa tttagccggg tttgtgactt gtgactttgt gaggagtag 240
 cggagttag aagcggtaga agaatatggg tctaggata ggtgaagtca gaatcaggac 300
 aaggtttttc gtttgttttc atccttcttt tttcagtttt ttaagatgat gcttttagtt 360
 ttgctaaaaa aaaaaaatta aataaataat aaccgatata act 403

<210> 8825
 <211> 370
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-056-Q1-K1-F4
 <400> 8825

ggaaacccta gccgccatat ctcacgatcc actcgagcac caagccgagg gaaggtgagg 60
 agcgatggcg cgcggcgtgg tgcggcgaa ggcggcgcg gtcgcgggca agaagaagg 120
 gtcggtttcc ttcacgatcg actgcaccaa gccagtggag gacaagatca tggaagtcgc 180
 ctgcctcgag aagttcctgc aggagcgcac caaggtcgcc ggcggcaagg ctggcaacct 240
 cggcgactcc gtcaccatct ctgcgagaa gaccaaggtc accgtcacct ctgacggacc 300
 cttcttcaag aagtacctga agtacttgac caagaagtag ttgaagaagc acaacgtgcg 360

<210> 8826
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-056-Q1-K1-F5

 <400> 8826

cccaggcata tgcgggctgg actcaattga agtcctgcag agcctagccc aggcgtttca 60
 aaaggtttta ctgcagtgga agtcaactgt tggcgacaaa gcaacagcta aatcgaatgc 120
 tgtcacttct cttcagatgg cactgatttag gctagtgtg gacatgataa gactgctgta 180
 ctttggagca tggaacattt tcagacacag tatacaccac aagagcatgc ccttattatc 240

 actgatgtcc gtttcaggcc taactctagt cacttggcaa catgtacttt agatagaact 300
 attaaattat ggattgctgc cgatcctgga ttctatgtgc atacatacac tgggcacaac 360
 ggacagatca catcattaga tagtcatcca aagcaaacag accttctatg ctcttgtgat 420
 tgcag 425

<210> 8827
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-056-Q1-K1-F6

 <400> 8827

cgatcgacac catgaggggtg ttgctcgttg cctcgtctct cctggctctc gctgcgagcg 60
 ccacctccac gcatacaagc ggcgggtgcg gctgccagcc accgccgccg gttcatctac 120
 cgccgccggt gcatctgcca cctccggttc acctgccacc tacggtgcat ctcccaccgc 180
 cgggccacct gccgccgccg gtccacctgc caccgccggt ccatgtgccg ccgccggttc 240
 atctgccgcc gccacctatgc cactacccta ctcaaccgcc ccggcctcag cctcatcccc 300
 agccacaccc atgcccgtgc caacagccgc atccaagccc gtgccagctg cagggaacct 360
 gcggcggttg cagcaccgcc atcctggggc agtgcgtcga gtttctg 407

<210> 8828

<211> 305
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-056-Q1-K1-F7

 <400> 8828

 caatagcgaa atcgtccctg attgtattat tgcataata cagatatgct aggcataagct 60
 cttactgtga ttatacatga actattcatt caatgaatgg tcagattatt gtccataatg 120
 tacggaattg gcaaaaggga aaaccgttta tctgttaat taattttttt taataatata 180
 tgaacccatt ttaattattg tactaacatt aacagtaagg ttcttattaa atacttaata 240
 caagggggccc tgtctgcttc ttttctcttg acattggatt ggggtccggt tctagtcata 300
 acaac 305

<210> 8829
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-056-Q1-K1-F8

 <400> 8829

 ctttgttggg aggaacgatg gagcagtcct tcatcatgat caagcccgac ggcgtccagc 60
 ggggcctgat cggggacatc atcagtcgct tcgagaagaa agggttctac ctcaagggga 120
 tgaagttcat gaacgtggag aggtccttcg cgcagcagca ctacgctgac ctttccgaca 180
 agcctttctt ccccggttg gtggagtaca tcatttcgg ccccggtgtg gcgatggtgt 240
 gggaggggaa ggacgtcgtg ttgactggcc gcaggatcat tggggccacc aggccttggg 300
 aggcagcccc cgggtaccatt cgtggggact acgccgtgga agtcggcagg aatgtcatcc 360
 atggaagcga ctccgtggag aacgggaaga aggagatcgc tctctg 406

<210> 8830
 <211> 312
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-056-Q1-K1-G1

 <400> 8830

cccacgcgtc cgctcgattc tgatagatta tcttctagta taccttgtgt tgttgctgtt 60
 gttgtcgtcg tcgcgcgggt gtatgcgatg aagctgccat tgctgctgtt ttaattaagc 120
 attctagatg ttataccgca tgctttgttt cggtttctat gtcgataaat ggtggccgga 180
 tgctggtttt cgtgctccga gccggccacc aggaagaaga cctgcctgcc cttgtgggtg 240
 cagcgttggt agaatgacct acggtgtatt tgactttgac aggctgctg cctagtggac 300
 tgatattctg tt 312

<210> 8831
 <211> 432
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-056-Q1-K1-G10

<400> 8831
 atccagtagc aacaatagag caacaatggc gaccaagata ttttccctcc ttatgtcct 60
 tgctctttct gcatgtgttg ctaacgcgac aattttccct caatgctcac aagctcctat 120
 agcttccctt cttcccccat accttccatc aatgatatgt tcagtatgtg aaaaccagc 180
 tcttcaacct tataggctcc aacaagcaat cgcagcaagc aacatacctt tatcaccctt 240
 gtttcaacaa tcgccagccc tatctttggt gcagtcattg gtacaaacca tcagggcaca 300
 gcagctgcag caactcgtgc tacctgtgat caaccaagta gctctggcaa acctttctcc 360
 ctactctcag caacaacaat ttcttccatt caaccaactg tctacattga accgtgctgc 420
 ttatttgcag ca 432

<210> 8832
 <211> 419
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-056-Q1-K1-G12

<400> 8832
 ggagaactgc ctgcccctgc tccctcttcc gctcctcccc gcgccccgct cgccatcccc 60
 agacttcatt tcaggccggg atggacgact acgccccgga gatgatggag ctcaagacgc 120
 tcgtcaccgg caccctcgag aagaaggcg tcctcgccaa gattagggt gagctaagag 180

caagcgtggt tgaagccatt gaagaggagg atcggtgga gaatgatgat ggagggaacc 240
 ctgctttgct tggtagctgc aatgaccgag ctaagcaact gcatgcttca ccttcaggta 300
 gggtactaac tgcacttgta tgcgaatact tggagtgggc gcaactaagt cacacactga 360
 atgtttactt gccagagtgt aacctgcca aggacttctg gaagaatgaa ctgaaagac 419

<210> 8833
 <211> 356
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-056-Q1-K1-G2
 <400> 8833

caacaagcaa catagcaagc ggcattcagt ggcaacaata gagcaacaat ggagaccacg 60
 atggtgaccc tgcttatgct ccttgctatg cctacatgtg ttgctaacgc gacagttaac 120
 cctacatgct cacatgctcg tatagctgcc cttattgctc cataccttcc atcaatcata 180
 gcatcagtat gtgaaaaccc agctgttcaa ccatataggc tacaacatgc aatcgcagca 240
 ggcaacatac cttgatcgac ctggttgtgt caacaatcgc cagccctatc ttcggtgcaa 300
 tcattggtac aaaccatgat ggcacaacag ctgcaacaac tcgtgctacc tgtgat 356

<210> 8834
 <211> 424
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-056-Q1-K1-G3
 <400> 8834

cggacgcgtg gggcaaaaat tttcttcagt gctgcagttg aagcctggga tgcaaaagtt 60
 tatgtcaaag ttgaagataa cattaatctt gacttagctg ggttaattga gatgctcgaa 120
 ggccgtccag gtagccaagg attgtacatg ggttgatga aatcagggat ggtcataagt 180
 gaagagggcc aacaatggta tgaacctgag tggtggaat ttggagattc aaaaacgtat 240
 tttcgacacg cttctgggtc tttgtttatc ctctcaaaaa atttggtctg ctacatcaac 300
 ataaatagcg cgtcactgca gagttatgca cacgatgata tatcagtagg ttcattgatg 360
 atgggactga atgcaactta cgtggatgat gaccggttgt gctgcagcag ttccagacaa 420

<210> 8835
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-E9

<400> 8835

cggacgcgtg ggcggacgcg tgggcggacg cgtgggcgga cgcgtgggtg aggatctgga 60
gagttgggat gccttgagag ctgccttgcc cgttgaaca gtcagtgggtg caccaaaggt 120
gaaggccatg gagttgattg ataagttgga agttacgagg cgaggaccat atagtgggtg 180
tctaggagga atatcgtttg atggtgacat gcaaattgca ctttctctcc gcaccatcgt 240

attctcaaca gcgccgagcc acaacacgat gtactcatac aaagacgcag ataggcgtcg 300
ggagtgggtc gtcacatctc aagctgggtc aggcattgtt gccgacagta gccagatga 360
cgaacaacgt gaatgcgaga ataaggctgc tgcactagct cgggccatcg atcttgcaga 420
gtcagctttt gtagacaaag a 441

<210> 8836
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-D6

<400> 8836

cggacgcgtg ggaacgcaaa accgcacct ctcacagct tccttcaca tgcgtctgga 60
gatctcgccc cgtcgccatg gacgcgatcg acagcgtggt ggatcccctc cgcgacttcg 120
ccaaggacag cgtccgcctc gtcaagcgt gccacaagcc cgaccgcaag gagttcacca 180
aggtggcggc gcggacggcg atcgggttcg tcgtcatggg cttcgtcggc ttcttgggta 240
agctcatctt catccccatc aacaacatca tcgtcgggtc cggctaggct tacaggagta 300
cagggcgact agcatgggag tagtgcaata cttttgggag caatagataa cgaggatcct 360
ggcttttcga atagtattgg taatgaaatt tttcgttcgg ttgcgtttct gatgt 415

<210> 8837

<211> 404
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-056-Q1-K1-D8

<400> 8837

cgagacgcgtg ggcggacgcg tgggcgacg cgtggcgga cgcgtgggag accaacgtgg 60
caacatagaa agcacaatag tgtaccaaca atggcagcca aaatattttg cctccttatg 120
ctccttggtc tttctgcaag tgctgctacc gcgaccattt tcccgcaatg ctcaacaagt 180
cctatagctt cccttcttcc cccgtacctc tcaccagcgg tgtcttcggt atgtgaaaac 240
ccaattcttc aaccctatag gatccaacag gcaatcgcag ctggcatctt acctttatca 300
cccttggttc tccaacaatc atcagcccta ttacagcagt tacctttggt gcatntattg 360
gcacaaaaca tcagggcaca acaactacaa caacttgtgc tagc 404

<210> 8838
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-D9

<400> 8838

cccacgcgtc cggaacaaga ggatctcaa gggaaagaag ggtggcaaga aggagaccgt 60
cgaccctttc tctaagaagg attggtatga catcaaggca ccgtcgggtg tcagtgtgcg 120
caacatcggg aagactctcg tatccaggac acagggtacc aggattgctt ctgaggggtct 180
gaagcacaga gtctttgagg ttgacctagc tgatcttcag ggcgacgagg atcaagctta 240
caggaaaatc aggtccgtg ctgaagatgt gcagggcagg aatgtgctca caaacttttg 300
gggtatgaat ttaccactg ataaactgag atccctagtg aagaagtggc agacattaat 360
cgaagcccat gttgatgtca agacaaccga caactacatg ttgcgtttgt tctgcatcgg 420
cttcacgaag aggcgcccaa acc 443

<210> 8839
<211> 410
<212> DNA
<213> Zea mays

ctggcaccat agaaagcaca ttagtggtcc aacaatggca gccaaaatat ggggcctggt 60
 tatgtcctt ggtctttctg caagtgtgc taccgagacc attttcccgc aatgtcaca 120
 agctcctata gcttcccttc ttccaccgta cctctcacca gcggtgtctt ccgtatgtga 180
 aaaccaatt cttcaaccct ataggatcca tcaggcaatc acagctggca tcttaccttt 240
 atcacccttg ttgctccaac aatcatcagc cctattacag cagttacctt tgggtgattt 300
 attggcaca aacatcatgg cacaacagct acaacatctt gtgctagcaa accttgctgc 360
 ctactctcag caacagcagt ttcttacatt caaccaacta gctgcattga actctgctgc 420
 ttatttgcaa caacaactac ca 442

<210> 8842
 <211> 423
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-056-Q1-K1-E12
 <400> 8842

cccacgcgtc cgcgagcgc tgggtcttta atctccttc aaatctgaac gtggatgggc 60
 taattaaagc ctttgagtg aaaactaacg acatgatgct ggtgatatac ctgtcttctc 120
 tgatccggag cgtcattgag cttcacaatt taatcaaaa taagatgcta aacaaggagc 180
 acgagaaggc cgaggattcg aaaccaaccg ccattcctac tgctgccgga agctaaacgt 240
 gcttttgatc actgattgca ttgggtggcta agaaaaggga agaaacttgt gatgacatgt 300
 tagcacggtt gtgctcgaac caactgtctt gaccttgaat ggacattcaa tatgtgcatt 360
 ctatgtatga tcagggtcaac ggcaagagaa accaattaca ctgtatgagc tttagatcac 420
 acc 423

<210> 8843
 <211> 430
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-056-Q1-K1-E2
 <400> 8843

gctgcattga actctgctgc ttatttgcaa caacaactag tactaccatt cagccagcca 60

gctgctgcct accaccagca atttcttcca ttcaaccaac tagcagcatt gaactctcct 120
gcctatgtac agcagcaaca actactacca ttccagccagc tagctgctgt gagccctgct 180
gccttcttga cacagcaaca attggtgtcg ttctacctgc acgctgcgcc taacgttggc 240
accctcttac aactgcaaca attgctgcca ttcaaccaac ttgctttgac aaaccagca 300
gcgttctacc aacaacccat cattgggtggg gccctctttt agattgctta tgagttatag 360
ttcaataata aagttttttt gatgatgttt gtggcttccc agaaataaga aagtacattt 420
ctagattctt 430

<210> 8844
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-E3

<400> 8844

acgacattga actctgctgc ttatctttta catttactag tactaccatt caaccatgca 60
tcggatacct aacacctgca atttcttcca ttcaaccac tcacagcatt gaactctcct 120
gcctatgtac agcagcaaca actactacca ttcatccagc tagctactga gaaccctgct 180
gccttcttga cacagcaaca attggtatcg tactacctgc acacttcgcc taacctaggc 240
accctcttac aactgcaaca attgctgaca ttcaaacac ttgctttgac aaacctcaca 300
tcttactacc tacatctcat caacagccgt accctctatt acaatgcata tgacttatct 360
ttcaatactc aagtttctt 379

<210> 8845
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-E4

<400> 8845

cccacgcgtc cgctcgctag tggctgtcct actcgtgctg cttgccctcg ccgccgtgtc 60
ctgcacgcgc agcgcacaaa aggagtccgc ggctgacaac gccgggatgt tggcaggcgg 120
catcaaggac gtgccggcga acgagaacga cctccagctc caggagctcg cgcgcttcgc 180

cgtcaatgag cacaacaaaa aggccaatgc tcttctgggg ttcgagaagc ttgtgaaggc 240
 caagacacaa gtggttgctg gcacgatgta ctatctcact attgaagtga aggatggcga 300
 agtcaataag ctctatgaag ctaaggctg ggagaagcca tgggagaact tcaagcagct 360
 gcaggaattc aagcctgttg aagaggggtgc tagcgct 398

<210> 8846
 <211> 400
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-056-Q1-K1-E5
 <400> 8846

cccacgcgtc cgcccacgcg teegeggtac gcgtgggcta gcaacataga aagcacagtg 60
 agtgtaccaa caatggcagc caaaatattt tgctctctta tgctccttgg tatttctgca 120
 agtgctgcta cggcgaccat tttcccgcga tgctcacaag ctctatagc ttcccttctt 180
 cccccgtacc tctcaccagc ggtgtcttcg gtatgtgaaa acccaattct tcaaccctac 240
 aggatccaac aggcaatcgc agctggcatc ttacctttat cacccttggt cctccaacaa 300
 tcatcagccc tattacagca gttacctttg gtgcatttat tggcacaaaa catcagggca 360
 caacaactac aacaacttgt gctagcaaac cttgctggct 400

<210> 8847
 <211> 418
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-056-Q1-K1-E6
 <400> 8847

ctcacgcgtc cgtatcctag ttcctacctt cgtcgccgat gccggctgcg agtactggtg 60
 cgctcatcta gaccagttc aatataagcg gcaagggag ctgcagcaaa agctccgacg 120
 agaacctata gcttgggggt tcaagctggg ataaagtggc gtcgaccgag gcggagacct 180
 agggagagca taggggatgc gatagggaga gatgaatcaa tcaatcgatt cgtctgctga 240
 cgcccctgct aacgacccta ctactatcct gacgatcata ctgtcttttg gcgttctttc 300
 tccggtcttt gttcgttaga ctgtggaaca ccaggtgaag cgtcttcaga agattattca 360

ctatattaga gtagatcggg tactggttca tggttagaat gattggaaga attaggtt 418

<210> 8848

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-E7

<400> 8848

gatccaacag gcaatcgcag ctggcatctt acctttatca cccttggtcc tgcaacagtc 60

atcagcccta ttacagcagt tacctttggt gcattttattg gcacaaaaca tcagggcaca 120

acaactacaa caacttgtgc tagcaaacct tgctgcctac tctcagcaac agcagtttct 180

tccattcaac caactagctg cattgaactc tgctgcttat ttgcaacaac aactaccatt 240

cagccagcta gctgctgctt accccaaca atttcttcca ttcaaccaac tggcatcatt 300

gaactctcct gcttattttac agcagcaaca actactacca ttcattccagc tagctggtgt 360

gagccctgct gccttcttga cacaacaaca gttattgccg ttctacctgc acgctgcgcc 420

t 421

<210> 8849

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-E8

<400> 8849

cccacgcgtc cgcacacgcg ttcgcgtacg cgtggggggcg ggtataaagg ccaccatggc 60

ggcttcagcg gtggtggcgg ttctggcggg ggtggtggct tcggcgctgg cggctacggt 120

ggtggcttct gcggctcctt atggaaccga agctccgctg gtggttctga tggagaagct 180

ggcaaccgct gcgggtggagg atgaaacggt ggcggtgacg gcgctggtgg acgatactgc 240

agcttccgaa ctggcgatga acttcatggc gtatttggat ttggccacct aggctaagct 300

agctctaata gcaagggacc ctccagc 327

<210> 8850

<211> 418

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-056-Q1-K1-D5
 <400> 8850
 cccacgcgtc cgggagaatt tccccattcc cttacagtat tatctgctaa ggcagcctct 60
 ctgacgttcg gtgtcattct agttatctcg ctggatgatg gaatcgttct caatttcact 120
 atgttttggt gcacaattgt gaactctgct ctgactacaa caatagtagg agttctcaag 180
 ggtgtcggat caacgaccct cggtttcggt ctgttgggag gtgtcgaagt acatgctctg 240
 aatgttactg gactggtgat caacacattt ggcggcgtat ggtactctta tgcgaagtat 300
 aagcagaaaa ggaaaacacc acggaagatc caacatgatg tagagtcgca tgcccacaag 360
 tagcgtcaga ttaactgtag ttatacttcg gtcttcgatc tgattataac tggatgca 418

<210> 8851
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-056-Q1-K1-C10
 <400> 8851
 gagattcctg gggttcctgt tatatatattt ctgaataact ctctatgcat aggacggggc 60
 tctatgcagc aacgcatggt tgctcaattg gatgaggaga agcgtctcaa tatggatatc 120
 tctgaataca ataagttact gaaggctgca tcagaaggaa agacaattgc cagtgaaaat 180
 ggaagtggcg aataacaaca tgagatgcct attagttctc tcgtaaaaaa tgcacttcat 240
 gttactgata ataccaagtt taagaggtag aaagcatatg gtccaaaccc actctcctgt 300
 aagaagaaga taccaaagct cccactgct attcaaaagc aggcaggtag ggctgatggc 360
 gacgcataga ggaagagggt tcggaagctg aagagaggcc aaaacgatta caagcaattg 420
 gaggctgcga act 433

<210> 8852
 <211> 443
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations

<223> Clone ID: LIB3059-056-Q1-K1-C11

<400> 8852

gtgaaagaca aacggactat atggcgactg agcataatct cagacttctt ctgggccatt 60
gtgagcttta tcagaatctt ctttgacaca ctgttctcat tggacaaaac tgacaacttc 120
aagaaagggg atggtgctgg taagaagtgg gatggtggac ctggtggtgg tgggcggggc 180
ccatatggcg gtggaggagg tggaggattc ggcggcggag gtggagggtg ttcacgngt 240
cctcgcactc tatctgacat ccaatccaat gaccacagtt ctctccctgc ttgtggatcc 300
tgctgtggct aataagcgtg caaccgttcc gcctgatgac tacgtataac anatgaatac 360
acatgcttct gtatgttctg aagaacatcg tagctattga tatgtattnt actgtcagac 420
gattgtatca taatcgatat gtc 443

<210> 8853

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-C12

<400> 8853

gcgacacaca cgctgactat atggcgactg accatactgt aacacttcgc ctgggcgatg 60
gagagctttc tcagactatt cattgacaca ctggtctcat tgcacacaac tgacaactct 120
cagaaacggg atggggctgg ctagaagtgg gatggtggac ctggtgctcg cgtgcacagc 180
ccctatagcg gtggacgagg tggaagattg ctcggacaaa gtgaacgtgc ttcacaggag 240
cactacaaca ctatctgaca tccaatccaa agaccacagt actctcactg caagaggata 300
ctgctgtgga tgataaacgt gcaaaagcag agactgatga ctacatataa caaatgaata 360
cacatgcttc tgtatgttct gaagaacatc gt 392

<210> 8854

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-C2

<400> 8854

cgcaaattgc accaagaaat ccatcgagag gccgtcgaca ggggaattaa tggcgtcgtc 60
gtctagcagc agccaccgcc gcctcactct cgcagccgcc gtctgtctct ccgtgctcgc 120
ggctgccagc gccagcgccg ggacctcttg cgtgccgggg tgggccatcc cgcacaaccc 180
gctcccagc tgccgctggt acgtgaccag ccggacctgc ggcatcgggc cgcgcctccc 240
gtggccggag ctgaagagga gatgctgccg ggagctggcg gacatcccgg cgtactgccg 300
gtgcacggcg ctgagcatcc tcatggacgg cgcgatcccg ccggggcccg acgcgc 356

<210> 8855
<211> 419
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-056-Q1-K1-C3

<400> 8855
cccacgcgtc cgcggacgcg tgggtggcga cacaactatt gcatttctcc tgatggagaa 60
ggaaatgtac actggcatgt cagacttgca gcctgcttca cctacaattg atcgagggat 120
tgcactccaa aagatgattc acttcatcac aatggccctt ggaggtgatg gctacttgaa 180
ttttatggga aatgagtttg gtcacccaga atggattgac tttccaagag aagggaacaa 240
ctggagctat gataaatgca gacgacagtg gagccttggt gacactgatc acttgccgta 300
caagtacatg aatgcgtttg accaagcgat gaatgcgctc gatgagagat tttccttctt 360
ttcgtcgtca aagcagatcg tcagcgacat gaacgatgag gaaaaggtta ttgtctttg 419

<210> 8856
<211> 393
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-056-Q1-K1-C4

<400> 8856
ccaccggcgg cgcgcgcgac ggcggcaaga tggcgcagcg tctgacctac cgcaagcggc 60
acagctatgc cacgaagtcc aaccagacgc gggctcgtcaa gaccctggt ggcaagctcg 120
tgtaccagta caccaagaag agagccagcg ggccaagtg tcccgtgacc gggaagaaga 180
tccagggcat tccccatctg aggccagctg agtacaaaag gtccaggttg tctaggaacc 240

gcagaactgt gaaccgtccc tatgggggag tactatctgg aactgcagtt agagaaagga 300
 tcatccgtgc tttcctgggt gaagagcaga agattgtcaa gaaggtgttg aaattacaga 360
 agaccaaaga caagactttc ttaaaaaagt tac 393

<210> 8857

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-C5

<400> 8857

cgatgctggg gctgctaagg agctgatggc aaacctagta agcatgcagt cgtcactttc 60
 tgatgttaac aagttgatca aggagatccg gtctgatgtt tctgaagtag ttgcagctga 120

cgagtttgag tacaaggatc cagttgatgg ctctgtgtcc aagcaccacg gcatccgata 180
 cctcttcgga gatggttcac gactgggtgtt ccgtctatcc ggaaccgggt ctggttggtgc 240
 caccatccgt gtctacatcg agcaatacga gaaggattcc tgcaagaccg gcagggattc 300
 acaggaggcc cttgctccac tgagttgatg ttgcgctcaa gctctccaag atgcaagagt 360
 aactggccg ctctgcccc accgttatca catagatttt tgaagagtga ttacaatga 420
 gg 422

<210> 8858

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-C7

<400> 8858

caaagatttg tgagggtgat ccgcgcttag aagagatggc taagatcgcc gcggcgggg 60
 cgggcgcgct gtgcttcgcg gccctggtgg ccgtggccgt ctgccaaggc gaggtcgagc 120
 ggcagaggct cagggacctg cagtgtgtgc aggaggtcca ggagagcccg ctcgacgcgt 180
 gccgtcaggt cctcgaccgg cagctaaccg gcggctgcgg ctgcagcagc gttggcccg 240
 tccggtgggg caccgggctc cggatgcggt gctgccagca gctccaggac gtgagccgcg 300
 agtgccgatg cgccgtcatc cggagcatgg tcaggggcta cgaggaggcc atgccgccg 360

tgacagaaagg ctggtggcca tgggggcgcc agcagcagcc gcc

403

<210> 8859

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-C8

<400> 8859

attgagacca actagcaaca tagaaagcac aatagtgtac caacaatggc agccaaggta 60

ttttgcctcc ttatgtcctt tgggtcttct gcaagtgtg ctacggcgac cattttcccg 120

caatgtctgc aagctcctat agcttccctt ctcccccg acctctcacc agcgggtgtct 180

tcggtatgtg aaaacccaat tcttcaacct tacaggatcc aacaggcaat cacagctggc 240

atcttacctt tatcaccctt gttcctccaa caatcatcag ccctattaca tcagttacct 300

ttggtgcatt tattggcaca aaacatcagg gcacaacaac tacaacaact tgtgctagca 360

aaccttgctg cctactctca gcaacagcag tttcttccat tcaaccaact agc 413

<210> 8860

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-C9

<400> 8860

gagattcctg gggttcctgt gatatatggt ctgaagaact ctttatgcat agaacgggcc 60

tctatgcagc aacgcaagtt tgctcaattg gatgaggaga agcgtctcaa tatggatatc 120

tctgaataca agaagttact gaaggctgca tcagaaggaa agacaattgc cagtgaaaat 180

ggaagtggcg aagaacaaca tgagatgcct attagttctc ttgtaaaaaa tgcacttcat 240

gttactgata aaaccaagtt taagaggaac aaagcaaagg gtccaaacct actctcctgt 300

aagaagaaga aaccaagct cccacaggct attcaaaagc aggcaggtag ggctgatggc 360

gaggcaaaga ggaagagggt tcggaagcgg aagagaggcc aaaaagataa caagcaattg 420

gaggctgcga actagaagga tgggcttg 448

<210> 8861

<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-D1

<400> 8861

ccgacgcgtc cgcggacgcg tgggggtttta tatattacct ggcattgaat ccgtgtacgc 60
gtgggatgga aaggtacaat ctgatgctga agaattactc atcatcaaga ccaggggaatc 120
acttctggat gccttgactg cacatgtcaa agccaatcat gaatatgatg ttcctgaagt 180
tattgctctg ccataactg gtggtaacac caagtatttg gaatggatca agaacagcac 240
ccgggacaag tgatctcttt ttttttggag ctgcacataa tgcgatgac gaagtgccca 300
tggtctctta gctcttcag tggcttgac acaagggtgt atctctctt gacctggaca 360
tctcaattac gttgctgtac cgaatccata tctaccatct tcaggtaaca agtgatttgg 420
tgt 423

<210> 8862
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-D10

<400> 8862

cccacgcgtc cggaaactca tgctcttttag cgcaaagacg gctacctagc aggagaggggt 60
acaccatac tctaacaagg atcgctatga cgtcaaggca ccgtcgctgc acatcgctgc 120
ctacatcgac aagactctct tattcatgac acatggttcc aagattgctt ctgacgatct 180
gattcacaga gcctatgacg ttgcctagc taatctttaa ggcgactagg atcacattga 240
ctgaacgatc aagctcagcg ctgaagataa gcacgacagc aatgtgctca caaactaatg 300
ctgcatgaaa tttaccagtg acaaactga 329

<210> 8863
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-D2

<400> 8863

cccacgcgtc cgccaacaag caacatataa agtggaatcc agtagcaaca acagaacggc 60
aatggcgacc aagatatttt cctccttat gtccttgct ctttctgcat gtgttgctaa 120
cgcgacaatt ttccctcaat gtcacaagc tcctatagct tcccttcttt ccccatacc 180
ttccatcaat gatagcttca gtatgtgaaa acccagctct tcaagcctat aagctccaac 240
aagcaatcgc agcaagcaac atacctttat caccottggg ggttcaacaa tcgccagccc 300
tatctttggg gcaatcattg gta 323

<210> 8864

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-C1

<400> 8864

cgacgtcgga ctcagcgaga aaggtggctg agctgaaggc tttcaacaag tttgagagca 60
catctgatgc cctatccgcg gcaaccctga ttattgatag caagcctagc aagggtctgc 120
gcaagttctt gcagaaacat tgtgaggggtg aaacattagc agtagctgat tctaagcttg 180
gaaatgctat aaaagaaaag ctgaaaattg actgccttca caatagtgtg gtgatggacc 240
tgatgagagg actgagaaat cagcttaccg agcttataac tgggtcgggt gcacaagacc 300
ttggtccaat gagcttggga ttgtcccaca gcttgtctag gtataagctg aagttcagcc 360
ctgagaagggt tgatacaatg atcattcaag ccattggatt attggatgat cttgacaagg 420
agc 423

<210> 8865

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-A3

<400> 8865

ccggaattcg acggcacgcg ttcggcgacg cattcccaat acggtttgga ttcagaatgt 60
gctgggtgctg ctgtgatctg tagcgtgggt gaactgatat acatgccaat aacgaatatt 120

cagtacaaga cgttcgtgcg tggccttgcc tgtagcaagg tcaagtagtc ctatgatagc 180
gaattgaaca agtactggaa gaggctcaat ggcacaaga atcggatgat cgagacgcat 240
aggtgaactg tgttcagtct ctgcacgatg aggtctgatg aagctattca gaaagaca 298

<210> 8866
<211> 421
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-056-Q1-K1-A4
<400> 8866

cccacgcgtc cgcacgaaaa ccctaaaccc tcgctacccg gcggcggcta caagctcttc 60
gtcggttcag caccatgagg ccaccggcta gaggaggacg tgggtgggagg ggtggcaggt 120
tcgatggcgg ctgccgtggg ggctgcggcg gctagccgtg ggtttggcgg tggtagaggc 180
ctgagagggg acaggggagg gagaggtggc aggaccgca gaggcggccg tggcggctgt 240
ggcaggggtg gccgcggcgg tggcatgaag ggcgtgagca aggccgtcgt ggtggcgcac 300
aagcacgccg gtgtcttcat cttcaagtcc aaggaggatg cgctctgcac taagaacatg 360
gtcccgggag agtccgtgta ctgagagaag cgtgtcttcg ttcagaatga ggatggaaca 420
a 421

<210> 8867
<211> 299
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-056-Q1-K1-A6
<400> 8867

aacacaataa atgaagctac tatgtgttcc gtaagtataa tcttacttaa aaaaaaggag 60
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaa aaaaaaaaaa aaaaaagggc tagcctcaaa tatatgacaa actaaaattt 180
cccctactta caactgtaaa ttatatttaa aatactacct aaaaaaaatt aatgggccga 240
atattaaaaa catcaacact gaaaaaaaac atggccttaca aaattaaata cttttaaaa 299

<210> 8868

<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-A7

<400> 8868

atgcaaaacc ctcccatctc ttaccctttg ccgccgtctc tgctctcaag agcgccaggg 60
cgtcagaaaa gaagcagtcg aacccgatgc gggagatcaa ggtgcagaag ctcgtgctca 120
atatctccgt tggagagagt ggagatcgac tcaccgcgcg cgccaagggtg ttggagcagt 180
tgagtgggca gtctccggtt ttctccaagg caaggtatac tgtgaggtct ttcgggtattc 240
gtcgtaatga gaagattgca tgctacgtta cggtcagggg ttagaaggca atgcagcttc 300
ttgagagtgg ccttaaagtg aaagagtatg aacttctgaa gaggaacttc agtgaatctg 360

gctggtttgg gtttggtatt ccaggacca ttgat 395

<210> 8869
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-A8

<400> 8869

agcgggggcg gcaagcaacc acgggcggag ctccggagcgt cctcctcctc ccgtctgtaa 60
attccccctc ttttcttctt ccatatatag gggccatcag atccaagaag agggaaaagc 120
accaaggacc ttcgggcgcc gtccaggatc cacatcttcc cgagcgagtt cttgggtgac 180
ctcttcccc ttcggaccac ctgcaaggct cttggtgtag cttgccactc tcaccaatca 240
agttttcatg tctgatctcg acattcagat cccaactgcc ttcgatccct tcgctgaggc 300
caatgctggg gactctggtg cggcagcagg gtcaaaggac tacgttcacg tgcgcatcca 360
gcagcgtaat ggtcgcaaga gcctgactac cgtccaggga ttgaagaagg agttcagc 418

<210> 8870
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-A9

<400> 8870

ccaatccaga tcagcaaagc ggagtgctg agagaggatc gtcgaacaga acagcatgaa 60
gatgggtcatc gttctcgtcg tgtgcctggc tctgtcagct gccagcgct ctgcaatgca 120
gatgccctgc ccctgcgcgg ggctgcaggg cttgtacggc gctggcgccg gcctgacgac 180
gatgatgggc gccggcgccc tgtacccta cgcgagtagc ctgaagcagc cgcagtgcac 240
cccgtggcg gcggcgccct actacgccgg gtgtgggcag ccgagcgcca tgttccagcc 300
gctccggcaa cagtgtgcc agcagcagat gaggatgatg gacgtgcagt ccgtcgcgca 360
tcagctgcag atgatgatgc agcttgagcg 390

<210> 8871

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-B10

<400> 8871

agaaacacac caagcgaagc tacctatcaa cgacttaaca acaatggcta ccaagatatt 60
agccctcctt gcgcttcttg ccctttttgt gagcgcaaca aatgcgttca ttattccaca 120
atgctcactt gctcctagtgc ccattatacc acagttcctt cgaccagtta cttcaatggg 180
cttcgaacac ctagctgtgc aagcctacag gctacaacaa gcgcttgagg cgagcgtctt 240
acaacaacca attaaccaat tgcaacaaca atccttggca catctaacca taaaaccat 300
cgcaacacaa cagcaacaac agttcctacc agcactgagc caactagatg tggatgaacc 360
tgtcgtctac ttgcaacagc acgtgcttgc atccaacca cttgctctgg caaacgtagc 420
tgcataccaa caaca 435

<210> 8872

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-B11

<400> 8872

aggaacacac caagcgatgc ttcctatttg cgaattaaca acaatggcta ccaagatagg 60

agcacctact tgcgcttctt gcccttcacg tgagcgcgctc aaatgcgttc attattccac 120
aatgctcact tgctcctagt gccattatgc cacagtttct cgcaccagat acttcaatgg 180
gcttcgaaca cctagctgtg caagcctact ggctacaaca agctcttgct gctagcgtct 240
tacaacaacc atttaatcaa ttgcaacagc aatccttgct acatctaacc atacaaacca 300
tcttatcaca acagcaacaa cagttcctac cagcactgag ccaactagat gtggtgaacc 360
ctgtcttcta cttgcaacag caagtgc 387

<210> 8873
<211> 428
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-056-Q1-K1-B12

<400> 8873
aactggttgt tgggtggattg gaccgtgttt atgaaattgg aaagcaattc aggaatgaag 60
gtattgattt aacacacaat cctgaattca caacttgatg attttatatg gcgtatgcag 120
attataatga tttgatggag cttactgaaa ccatgttgct aggcattggt aaggacctga 180
caggtggcta taagataaaa tatcatgcaa atggagttac taacccccca atagaaattg 240
atttcacgcc taccttcaga aggatagata tgattaaaga tttggaggct atggccaatc 300
tcagtatacc aaaagatcta tcaagtgatg aagcgaatcg ttatttgata gaagcatgtg 360
tgaagtatga tgtgaaatgt ccaccttccc aaacgacatc gcggttgctt gacaagttgg 420
ttggccat 428

<210> 8874
<211> 233
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-056-Q1-K1-B2

<400> 8874
acgagatgtt ttaagcggct gaacatatca aaaataaaac ctgaatcacc cacaacagtg 60
ttcgtaaata ctcaaacaga ggtatttact gaaaaaaact gctgtacgtt gtataggatt 120
cgatcttact tacgcactct tcctacggca tatctgtact ataggattca taaagactaa 180

tgataatgcc gccttcttaa attatcataa ctggcacaac caattctgct cca 233

<210> 8875
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-B3

<400> 8875

acaggcttct acatgtggcc ttaaagaact ggtttctaag ttcattccgg aagttagggc 60
cggggaacac tgagaagtct acctgcagca tcttacgact tcaaaacgtc ttcattccgca 120
gggtgaagat actcaaggcc cccaagtttg atctccggaa gttgatggag gttcatggcg 180
actacaaaga ggacgttggg gtgaagcttg agaggcctgt cgagggtgat gaggctatgc 240
atgaggttgc tgctgccgag tagtttattt gctacttctt tatctagacg aatctggaca 300
ggaggtccct tatga 315

<210> 8876
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-B4

<400> 8876

cccacgcgtt cgaacggagc cgacatgctt gagatctaaa cccaagtcgt gcctacggtc 60
cggtcacccg tcgctccacg caaccatgtt gaggaggaag accagggatc ccaaggagga 120
gaacgtcaac cttggaccca ctgtccgtga aggagagtat gtctttgatg ttgatcacat 180
ctttgcatac tacaatgaca cctacattga tatgactgat ttgtctggta aggaaactct 240
ggttcggatc accggcggca tgaagggtgaa ggctgaccga gactagaccg aaccttacgc 300
tactatgctt actgctcaag atgtatcaca tagctgcaag gagcttggca ttactgcact 360
gcacattaag cttcgtgccca ccggaggcat caagaccaat acc 403

<210> 8877
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-B5

<400> 8877

gacactcgtg cgggtggattg tacgggttcg atcatagggt aacaacaacg aggtggtgtc 60
aacaatagg agatcaacta gacatagtgt cggcttaagc atgcctagta gtagtacgta 120
acagtgcac ttagtgatag tgaaaggata ctgctgatgt gaagattaat attgatggat 180
gagacatagc gctgtagaag ctgtcaagcc cgcagagcga atatgatgtg cagacattga 240
atcatatcca tgagatttct gcacatgaat aatattaaga ttaatgagac agctactggt 300
tctatatgaa tctaac 316

<210> 8878

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-B6

<400> 8878

gctgcaacag tttatgccag tgctcagtca actagccatg gtgaaccctg cgtctagct 60
acaactactt tcctctagcc cgctcgcggt gggcaatgca cctacgtacc tacaacaaca 120
gttgctgcaa caattgtac cagctctgac tcagctagct gtggcaaacc ctgctgccta 180
cttacaacag ttgcttccat tcaaccaact ggctgtgtca aactctgctg cgtacctaca 240
acagcgacaa cagttactta atccattggc agtggctaac ccattggctg ctaccttctt 300
gcagcagcaa caacaattgc tgccatacaa ccagttctct ttgatgaacc ctgccttgca 360
gcaaccatc gttggaggtg ccatctttta gattacatat gagatgtac 409

<210> 8879

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-B7

<400> 8879

ctcgagtcca agatcatcct cgatcgggag acgcagaggt cccgcggctt gggcttggtc 60
accttctcca cggaggaggc gatgcggaac gccatcgagg gcatgaacgg caaggagctg 120

gacggccgca acatcacctgt caacgaggcc cagtcccgcg gcggccgtgg aggcggcggc 180
 ggtgggtacg gtggtggccg tggaggcggc ggctacggcg gtggcgggcg ccgtgatggc 240
 ggtggcggct acggcgggtg cggcggctac ggtggcagcg gctgctacag tggtggtggc 300
 ggcggctacg gcggtggcaa ccgtggcggc ggctacggca acttcgacgg gaactggagg 360
 aactgaacgg tggggccc 378

<210> 8880
 <211> 409
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-056-Q1-K1-B8
 <400> 8880

aatatgagct ctggagctct gtatcatcta aaacagatgt aagaaatgtt tggtgctgct 60
 gaatacacia cagccattga tgttcggtct gctggctgtg tgctcaatga gctgcttcta 120
 ggacagccta tgatcactgg agaaagcggg gttgatcacc ttgctgaaat catcaagggt 180
 ctgggcacac gcacacgtga agaaattaag tgcataatc caaattatac ccagtataaa 240
 ttcccgcaaa tcaaagctca cccgtggcat aagatattcc ataaaatgat gcctgctgaa 300
 gcagtatatc tcgtgtccag gcttctgcag tactcaccaa aacttcgacg gactgctatg 360
 aaagcatcgg tccatccgtt ctttgatgaa cttcgggacg caaacaccc 409

<210> 8881
 <211> 445
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-056-Q1-K1-B9
 <400> 8881

gacactgcag cgtcttattg cattggttga atcagagaga aactaccacc agaaggtgct 60
 acaaattctt gatcaacttg agagagagat ggtatctgag cgccaaagaa ttgaaggggc 120
 aactcctccg gtggttgaga gttccatgcc tccaccgctt gcatatgaag aagtcaatgg 180
 tatattcatg aggaatacgg tcgcagagtt ggtcgagacc gtggagtatt tcctggctga 240
 ggcaatccaa tcatatcgag cagagagcga cactgagctc aacctttcag ctggtgacta 300

catagtggtc cgaaaggtgt cgaacaatgg atgggccgaa ggtgaatgca gggggagagc 360
 tggctgggtc ccctacgatt acatcgagaa acgagagcgt gtgcttgcaa gtaaagtcgc 420
 gcaagttttc taaaactaaa acttt 445

<210> 8882
 <211> 206
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-A2

<400> 8882

cattggatgg atcgacagct tggcagaact tttttcatgc tctgcaagat gagggctggt 60
 caatttggtc agaaagacat cccctacctg aacacctacg acgactgcac cattcgctac 120
 cccgacctaa ggggtggaat ggattgtgat ccatatgggt cttcacaaaa tgtcaaggac 180
 ctaaataaat tatagtttaa aaatga 206

<210> 8883
 <211> 314
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-G10

<400> 8883

ccccctctt ccggacgaac ttggatttta tctcgagaag aaaatcttgt caaccagtcc 60
 gttataaaga ttgggcccaac cacattaagt ttctattctt tttctttttc ctttccctta 120
 accccttata tagctatata actttacatt ttctcatttt tttctttttt tttttttaaa 180
 atttattttt tttttttctt tttctttttt ttttttttct tactctttat tttttttttt 240
 ttttttcttt attttatttt ttttttttaa tttttttttt ctattttatc ttgttggtgt 300
 ggtttttttt tttt 314

<210> 8884
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-G8

<400> 8884

gcaacagtgg tttgctcatg ctctccttga aggcgaagca tatgaaccgc ctgtttacat 60
acaaccttgg gaaaaggag tggcagaagg ttcttgattg catgctacca tggagtcgaa 120
aaaggcaatg gataacatgt ggcacagcat ttgatccggt cccctgcgcc ttggtctgac 180
atggaatttt accttctttg tctgagcact ataataattt agtcctttca tatcattggc 240
ctatcttttag atctttctat gttgttgtga caagttctgc gaaaacgcgt gacttgtttt 300
tgctttgtat aacgccttct atacattcgt actgtttatt ttattatctt ttatattggt 360
tattttttta ttcttttata taatttatat tttttttta attatttttc ttattatttt 420
a 421

<210> 8885

<211> 258

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-G9

<400> 8885

cgcacgcgtc cgcggacgcg tggggttaat attttgaat gaaaggagat gatgaagttt 60
cttattatag cagtaggaac cgcataaaaa tatgggagcc gtcattgtat gaaattgatg 120
tctaataattg gcgtattgtt gtaggctcta ttgatttata tgttgcgtt tttattaaat 180
atttatttat ttttttattt tatttatttt ttatatatta tattctattt ttttattttt 240
ttttttttat ttattata 258

<210> 8886

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-H10

<400> 8886

ccgcgtgttt caacaatcgc cagccctatc ttgggtgcag tcattggtac aaaccataag 60
aactcatcag ctccggcagc tcgtgctacc tgtgatcaac caagtagctc tggcaaacct 120
ttctccctac tctcatcaac aacaatttct tccattcaac caactgtcta cattgaaccg 180

tgctgcttat ttgcagcaac aactattacc attcaaccag ctagctactg cctactctca 240
tcaacaacaa cttctttcat ttaaccaatt taccgcactg aaccctctt gcttagtgca 300
tcttcaaata ctactaccat ttatcctgct agcttcatca atctctttct ttattttttt 359

<210> 8887
<211> 190
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-H6

<400> 8887

gtcatgatgg acttgtgaat gattttcaca tctactccaa caacttccaa gaaagcgcac 60
gtttatttta accttcgcca gtacgacccc cacttctact caaactagcg ccactacaac 120

taccattgc tctctactt cctcgcttc aacaacatct tactcaacat acctctctac 180
aacttcattt 190

<210> 8888
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-H7

<400> 8888

ggtagccaat tagcgcaata tctgatatgc accttacgac ttctaacttt gcaagatttg 60
ttctctgata gacatgggca tgcagatgca cttatgggta gatatatgaa tcagttagta 120
ttataggtat atgttgtgtg cattatattg gctaccaa at cacaataaa aggtgcagag 180
tccgcagtcg cttcattact gttgctagcg caagttataa ttttgatttt ttcttttttt 240
ttatattatt tttatttttt tttttttttt tttttattta tttttttttg ggggggggtt 300
gttttttttt atttattttt tttttttttt tatatttttt ttttctattt tttttttatt 360
atattatatt tatattttta ttttattatt ttttttttta attttttttt tttttttttt 420
tattttt 426

<210> 8889
<211> 389
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-055-Q1-K1-H8

<400> 8889

cctagtgcc ttattccaca gttcttccca ccagttactt caatgggctg cnaacaccta 60

tctgtgcaag ccaacatgca acaacaagcg cttgcggcga gcgtcttaca acaaccaatt 120

gccaattgc aacaacaatc cttgccacat ctaacaatac aagccatcac aacgcaacag 180

caacaacagt tctaccagc actgagccac ctagccatgg tgaaccctgc cgcctacttg 240

caagagcagc tgcttgcatc caaccactt gctctggcga acgtagtgtc aaaccagcaa 300

caacaacagc tacaacagtt tctgccaacg ctcatgcaac tagccatggt gaaccctgcc 360

gcctacgtac aacaacaaca actgcttctc 389

<210> 8890

<211> 214

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-H9

<400> 8890

gaccacacg tctgtcatc atcaacttct gcatgctttt tgcgagacgg acagagccat 60

agagaaagta tctttcagat tttggtacgg cctcctcact ctaaccagcc agattatttc 120

aagcttgtga atgctctctt gtctaaacac aatgttcacc ttgtcacttt tccttctgct 180

aatactcata tctatgtttc ttatcttttc aata 214

<210> 8891

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-A1

<400> 8891

gtttctcggg gtctcctatt tcaactgttc actccatctg gacatgactg cggactcaac 60

ctgtttttca ttgtcttcac gttgattctt gtttttgcgt ttgtctattgt tgccctgcac 120

ccaaagatca atggaagctt gttgcctgca tcagttattg gtatgtactg tacatatctg 180

tgctacagtg gactctccag tgagccaagg gattacgaat gcaatgggct tcacaatcac 240
tcaaaaagctg tgtcaactgg tagccttaca ttgggactcc ttaccacggg cctctctgtg 300
gtctattctg ctgtccgcgc 320

<210> 8892
<211> 319
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-056-Q1-K1-A10
<400> 8892

ctgaaccccg ctgcttattt gcagcagcaa atactactac catttagcca gctagctgca 60
gcaaaccgtg cttccttctt gacacagcaa cagttgctgc ctttctacea gcagtttgcg 120
gctaaccccg caaccctctt acaactacaa caattgttgc cctttgtcca acttgctttg 180
acagaccag cggcctgcta ccaactacac atcattggtg gtgccctctt ttagattgct 240
tattagtcgt aattcaataa taaagtttct tggatgatgt atgttgccaa ccagaaatat 300
gaagttacat ttccagaaa 319

<210> 8893
<211> 387
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-056-Q1-K1-A12
<400> 8893

gcaaagggtc agtggatcac atcttctttt tctggacttg tgttccgcct tggtaacgga 60
gctgagagtt ctttgagcct gacatgattg gcttcccaag cactccttga tgcaccagtt 120
ggagtttcaa gttacatttg agatgtacat aatgaccata tataatcctc cagtagatta 180
tattttctgg agcatgtaat gtagacgtta gaggccttgc ctggtttgcc aagatgggtg 240
ttacctaagg tcctaacaag aggccgcagg cgagcccagt ccaattagat gatgtgaaaa 300
atttttggcc tttttttagt ctttggacat gttatcaaata taaggagggtc gtgctagcac 360
gatacccaaa ctaagaaata acaaaaa 387

<210> 8894
 <211> 464
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-055-Q1-K1-E1

<400> 8894

```

ggctaacttc tcataattcg taacctgatt tgtacgacag aagagctctt gtgtggtntg 60
ttcgtattga accattagaa cctatgttgc atacctttaa atgatnnccc ctactgaaga 120
ccaatgtgga taacctcttc cctgtcatgc catctcagat taggaacata gcccgctttg 180
gcgtgtcctc agttgctgtc aagctctatg taattggtgg ttccatttat ctagtttttc 240
ctcttactgt atattattac attatctttt ctattctatt ttgttatttc tttttatatt 300
tttatatggt tgtgttttta ttattcggtt ttttattttt ttattctttt tcttttatatt 360
tttttttttt atttttttat ttttattatt tatatttatt tttatttttt ttttatatta 420
ttttttttta ttttttcata ttttttttta ttttattatt tttt 464

```

<210> 8895
 <211> 302
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-055-Q1-K1-E11

<400> 8895

```

tgtatctaga gcttgtaacc taagcttttt tcattaaggt ggtgtttatt tntntttgca 60
ntttttaaat ttgtttgtcc cctattttat tttttttttt ttttatttta tttttttatt 120
tatatttttt ttattttttt ttatattatt tatttatttt ttatttttat ttatttatat 180
attat,ttttt ttaattttat ttttttttaa tttttttttt tatatttttt tttttttatt 240
ttttttttta tatttatatt ttattttttt attatttttt ttttttttta ttattttttt 300
tt 302

```

<210> 8896
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-E12

<400> 8896

cggacgcgtg ggtgctgcat actcttatca acatcagttt cttccattca accaagttgc 60
tgcatagaac tgtggtgctt atttgcaaca acaattacca ttcagccagc tagttgctgc 120
ctacccccag caattttcttc cattcaacca actagcagca ttgaactctg ctgcttattt 180
acagcagcaa caactactac cattcagcca gctagctgat gtgagccctg ctgccttctt 240
gacacaacaa cagttgttgc cgttctacct gcacgctatg cctaacgctg gcacctctt 300
acaactgcaa caattgctgc cattcaacca acttgctttg acaaactcat cagtgttcta 360
ccaacatccc atcatt 376

<210> 8897

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-E3

<400> 8897

cgtgacgttt agctttaagc ttgctattaa tggaactggt aacaatggtg attctgcaag 60
tgtattctgg ctatgccgtg aggtgcaaag atcctatata tgctcatgaa atgaccata 120
tggaagttca agtttgcaac aacacaaagg aaattattcg gatgaacctt aacatttcat 180
gcaaagatgt tgcaggacag aattgcttcg atgaaaatag tgcaactggt ctctgggctg 240
ttgttcttag cgatattcac cttgaagttt tatcttttca agttattttt gagggggggt 300
tattttcttt atttttattt tttttttttt tttattttat ttttttctat tttttttttt 360
tatatttttt tttttatttt tttttctttt tttttttatt tttttttata tattttattt 420
t 421

<210> 8898

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-E8

<400> 8898

cggtcgcgtg ggctgacgct ttggtttcag cattcaaaaa cacaccaacg taagtctact 60
atcatcgatc tgaacaccaa tggctaccaa gatattagcc ctcccttgctc ttcttgccct 120
tttagtgagc gcaacaaatg cgttcattat tccacagtgc tcaacttgctc ctagtgccat 180
tattccacag ttccctccac cagttacttc aatgggcttc gaacattcag ccgtgcaagc 240
ctacaggcta caactagcgc ttgctgctag cgccttacia caaccaatgg cccaatttca 300
acaacaatcc atggcacatc taacctaca aaccattgca tctcatcatc aactacaaca 360
ttttcttcca tcaact 375

<210> 8899
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-E9

<400> 8899

ggaaaaaaat tagatgatct ttgacttgct taggatttaa tcttgactca ttctcactct 60
atattcagat cgattgagag ctaaccgaac aagccctaata gggttgttct gttatttctt 120
atacacatgt gttttattta atttatttta tttatatgtt tttatttttt ttttttttta 180
tccctttttt tttttttttt ttcttttttt ttttatttct tttttttctt tttctttttt 240
tttttttttt tttttttttt ctttttatta ttttttattt ttttgggggt gttttttttt 300
tttatttttt tttttttttt ttttcatttt tttatatatt tttttttttt ttttattatt 360
tttttttatt atcttttcat tttttttttt tattttattt tttttttttt tttttt 416

<210> 8900
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-F1

<400> 8900

gccacgcgtc cgcccacgcg tccgtttaaa ggtgcatggg actecttttg aaatggacgg 60
ctctgaaggt gaatgggtctg agtatgatga gaaggagaa tgccccgttg agctaggcaa 120
gctgcagtca acattcaaag tggttaagcag gcaattgctt cctgcactac catatttatt 180

atcatttcta tccctccata tacttttgac attattgtga ttgacaacag gtgaagaagc 240
atgagagggg tgggaagact agatttgtct agatcgagtg acttggaatc tgacagatat 300
tgagagttggc ggtgtataaa tggtagattt gggctgaagg tcatgcbtga tccgatctct 360
ttttcttc 368

<210> 8901
<211> 427
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-055-Q1-K1-F11
<400> 8901

tcccgcbtgg ccacgcbtcc gaccccgggg aggttattaa accagtcttc acaaggccat 60
taacgatgaa ggtatgcctc atcatggcct tggctgcatg aacgaccgtc tgtttgttga 120
attcaacgtc gcbattcccg agccttactc tctctatcct gccagatcc tatctttttc 180
ataagatcct ttactcaaa ctctttttcc ttctttaatc tcttcatctc tatctgttct 240
atttaatcat gctttaccta ttatcatttt atttttttca ttttttcttt attcttttct 300
tctctttatt ggggggggctt tcattttttc ttattttttt tttattcttt ttttttatat 360
ttattatttt ttttttcttt ttattttcta ttttatttct atttttctta tttattatta 420
tttttttt 427

<210> 8902
<211> 379
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-055-Q1-K1-F5
<400> 8902

cgtaccattc agccagctac ctgctgtcta ccccagcaa tttcttccat tgaacgaact 60
gtcagcattg aagtctcctg cttattttaca gcagcaacaa ctactaccat tcagccagct 120
agctgggtgtg agccctgcta ccttcttgat acaaccacag ttgttgccgt tctaccagca 180
cgctgcgcct aacgttggca cctctttaca actgcaacaa ttgctgccat tcaaccaact 240
tgcttttgaca aaccagcag cgttctacca acaaccatc attggtggtg cctcttttta 300

gatttcttat gagttatagt tcaataataa agtttttttg tctgatgttt gtggcttccc 360
 agaaataaga aagtacatt 379

<210> 8903
 <211> 310
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-055-Q1-K1-F6
 <400> 8903

cgccacgcgt ccggaagggt gttaatctac caatccgctt aggggacctc cggatggatt 60
 ctttgattgc tatggcgtag ctgccgctct ataaggaatg catgaattcc aatgggcaac 120
 ttttgectca aaggcttaca ggtcagcttg tacagcctgc aatcatgctc tagtaccagc 180
 aagcttaaag taactcctcc accatataac tcttttccat cttgaagcac tacatataac 240
 tatctatgat tcactcttca atttactctt cattaatcca ttattaacgg gggctttttt 300
 tacattcttt 310

<210> 8904
 <211> 403
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-055-Q1-K1-D9
 <400> 8904

attcccgggtg cggccacgcg tccggcacgc gtccggcctt ctacagcctt atgagcaaatt 60
 ttagaacttc tacctctttg aataagaata aagcgtgtac tctcaaagac tctaaaatat 120
 gaaacattgg gcttgtaagg aaaatggacc ccggggccatt tggctaattg agttttggtg 180
 tttgatgaac aacacaatcc atgagctaatt aagttttcta gtgtttatgt ntgtaagttt 240
 atatttttca atgatttttt tgactttatg aatttatgta tgtttttttt tttttttata 300
 tctttttatt gggggggggg tttttttttt tttttattta tttttttttt ttctttatta 360
 tttttttttt tattattttt ttattatttt tgtttttttt ttt 403

<210> 8905

<211> 282
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-055-Q1-K1-F8

 <400> 8905

 ggactgactc actgaccogt accctttccc ggcgggactt cctctcgaat gttggcagtc 60
 gagaccctag ttgccccacg aaccgaggat ccaagatgag tttcctgttc gggaagagga 120
 agacgcccgc cgagctgtta agagaaaaca agagaatgct agatcgatcc atcagggaaa 180
 ttgagcgaga gagacaagga ttgcatgccc aggagaaaaa gctcatcact gatatcaaga 240
 aaacagctaa tgatggccag attggagctt gtcaaagtat tg 282

<210> 8906
 <211> 397
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-055-Q1-K1-B6

 <400> 8906

 cgccacgcgt cggaccaac tagcatctat agaaagcaca atagtgtacc aacgatggca 60
 gccaaaatat tttgcttctt tatgtctcctt ggtctttctg caagtgttgc taccgcaacc 120
 attttccac aatgttcaca agctcctata gtttcccttc ttccccata cctctcacca 180
 gcggtgtctt caatgtgtga aaacccaatt gttcaaccct acaggatcca acaggcaatc 240
 gcaacaggca tcttaccatt atcacccttg ttcttccaac aaccgtcagc cctattacag 300
 cagttacctt tgggtccattt ggtggcacia aacatcaggg cacaacaact acaacaactt 360
 gtgctagcaa accttgctgc atactctcag caacatc 397

<210> 8907
 <211> 162
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-055-Q1-K1-B9

 <400> 8907

 tactctcccc acatattctc ccaacaccac caccagcaac caaaagcaag ctattaacac 60

tttcgggacc tcaatcctta cacctacacc aacattatcc aatataacta aaacatccat 120
 cacaaattta tctactcctc ccattttaaa tatattaact ta 162

<210> 8908
 <211> 241
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-C11

<400> 8908

cgcgctccggg cgttctgtaa actgtaaatt cgtatgtcga atctgacaat ctggacggat 60
 tcagtccata tactaagatc tgggtgttgcg ggatctgtgg agttagttag ggttactttg 120
 ctacctcggt cagttgtgct tgtgaaatga aactgcagat ggttattaaa tcccctgcat 180
 tttccctaaa tatatttttt ttattttttt tatttttttt ttttattatt tttcatcttt 240
 t 241

<210> 8909
 <211> 284
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-C12

<400> 8909

gaacaattgc ttgaacaggt tattgttttt gttgatgctt ctgaggctga tgaatgttta 60
 aaagttgctt ggaagccttt agaatcatta ccatatgatt ctctgggca gacctttgtc 120
 gcttttgaga agccagaaag tgtcattgct actggcaagt tctcaaatat cctgaaattc 180
 attgttaagg aggttgatcc atccacgggt gaaactgaag atgattgtgt tgaggatttg 240
 tttccatctt taatttcttg attttatttt ttgttgatta tttt 284

<210> 8910
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-C3

<400> 8910

gccacgcgtc cgggtgtggtg cctcattttt caaaccggg agagcgggca cgcagcttgc 60
 atagaggagg agctgggtccc ttccgcgctc ctcaagttca ttcccaggga gactgattcc 120
 gtggctttca cgggtttgct tgatgagctt ctggaggcca gtgagccgct tctgctgca 180
 tcacaatgaa gtgtgtgtat atagcagttc gttctgttgc tgtttctgct tgctgcatca 240
 caggattact tggataacgg tacgtatttg tattgtctga catatcttgt ggaaaggctg 300
 tcatactctt aaattctttt ggccattct taactttata tgttctgtac tgtgcttacc 360
 tgtacttttt aactttattt cattttcttg atttcttggt tattcttatt ttttatttta 420
 tatttttttt ttt 433

<210> 8911

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-C6

<400> 8911

ggaagatgct ctgacttttg aagacttcag catcatgcct cagaagctga gagggtagcc 60
 ggtggagtac ctgggtgtctt acaggaaggg cgggccatcg ttccggtcga ccgtgagcga 120
 gaagatgagg agctcggaga tgtagggagc ctcgtagcac ctccgaagat actgtagatt 180
 cctatgatca tttggctgca ttgttctggc caccgcgcgc cgtctcgcct gttggagcag 240
 caggacaaaa ttcccttgcg tggctcctgc tctttgcctt gtttgtttgc acgccaataa 300
 ggacccaaat ttccgtgcat gttaagagat gaaagaatcg ttccacagtt ttacagttga 360
 aggttttttt ctgtcactgt atgatacaat attattcttg tatctggaat ttatatttt 419

<210> 8912

<211> 157

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-C7

<400> 8912

cccacgcgtc ctcagacgcg ttggctcaaa ttgcatgaca tcattctcctg gtaagtaacc 60
 ttacaacttt cgccacggcc accaatcaca agacctacaa ttctctccta ttgaaagtta 120

accaaatacag atctgtgacc aatagtatct aatctttt

157

<210> 8913
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-D1

<400> 8913

agcaagctaa ggcactagc aacgatctat caccaatggc taccaagata ttatgcctgc 60
tttctcttct tggccgttta gtgagcgcaa caaatgcgtt cattattcca cagtgtcac 120
ttgtctctag tgccagtatt ccacagttcc tcccaccagt tacttcaatg ggcttcgaac 180
atccagccgt gcaagcctac atgtacaac tagcgcttgc tgcgagcgcc ttacaacaac 240

caattgcca attgcaacaa caatccttgg cacatctaac cctacaaacc attgcaacgc 300
atcaacaaca tcatcagttt ctgccatcac tgagccacct agccgttgtg aacccttttt 360
acctact 367

<210> 8914
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-D12

<400> 8914

caaatgatga agtgaaaagt cagctatctc atttccttcc aacttctcgc cggatcggtc 60
agttttcaaa tgggcaggct ctttcgccag gtgctcgtgt tgtctatgta gatggcacat 120
ttgatctttt ccacgctggc catgttgagt tcttcaggag tgccagacaa cttggtgact 180
ttcttcttgt gggatatctat gacgactagt cgatcaggga tagaagaggc tgtcgttcta 240
taatgctatt ttcagagcg tactcttggt gttcttgcct tctcttttgg ggggtgtattt 300
atttattttt tcattttttt atgttttttt ttttctttat ctttcttttt tattttatat 360
tcttttattt ttgttttttt tttttttttt tttatttttt tttttt 406

<210> 8915
<211> 412
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-D4

<400> 8915

tgccgacagac ttcgtagccg aggcctttgtt ctaccaggag ttcacatcaacg tgaaggtctg 60
ttattacatt gggaagaagt acgtcattct gttctttctac cccttggatt tcaccttcgt 120
ctgcccagacc gagattactg cgttttagtga cagatacagag gaatttgaga agttgaacac 180
tgaggttctt ggtgtttcca ttgacagtgt gttctccac cttgcatggg tgctgacaga 240
catgatgtct atttttctct tctttcttat tttcttattt ttttttggtg tgtctttatt 300
tttttctttt ttcttttttt ttttttctt ttcttattt tttttattat tttttttttt 360
tattttcttc atttcatttt tttttattct tttttttttt atttttttct tt 412

<210> 8916

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-D5

<400> 8916

tttgaagaaa aaacaaaact taaatatggt ggtgagggaa cctggtaagg gttggttttg 60
ttgaaatata gtgggagagg ttgtgataat ttactttttt tatttttttt aattttattt 120
ttttttgttt tatttttttt ttaatttttt tttttatttt ttattttatt tattatttta 180
tatttttttt tttttattat ttattttatt tttttttttt ttattttttt tttttttatt 240
attttttttt tttttttttt ttttttttat ttttttatta tttttttttt attttttttt 300
tatttttttt tgtttttttt ttatatattt tattttattt ttattttatt tttatttatt 360
attttatttt ttatttttta ttttttttta tttttattat attttattat ttttttttta 420
tttttttta 429

<210> 8917

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-D6

<400> 8917

gcttcagtat gtgaaaaccc atctcttcaa ccatataggc ttcaacaagc agtcgggagc 60
aagcaacata cctgtatcgc ccttggtgtg tcaacaatcg ccagccctat ctttggtgca 120
gtcattggta caaaccatca gggcacaaca gctgcagcaa ctcgtgctac ctgtgatcaa 180
ccaagtagct ctggcaaacc tttctcccta ctctccgcaa caacaatttc ttccattcaa 240
ccaactgtct aactgaacc ctgctgctta tttgcagcaa caactattac catttagcca 300
gctagctact gcctactctc aacaacaaca acttcttcca tttaaccaat tggccgcact 360
gataccccgc tgcttattt 379

<210> 8918

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-D7

<400> 8918

gccacgcgtc cggcaccgtc taggtctgga accttaccaa ctgcaagctt gtctgcactc 60
tggatgggca cggtggtat gttaacgccg tcgctgtgag ccccgacggg tcgctgtgcg 120
cctcctgctg gaaggacggt gttactctgt tttgttattt gtctgtaatt ttaatttctt 180
tttttttttt tttttttttt ttcattcttt ttttttgttt ctatttcttt ttttattttt 240
tttgttttta tattttattt ttttttattt ttcttcttct ttttggtggg ggggtttttt 300
attttttctt tttattatat tttttttatt tatttattta tttatttttt tattttattt 360
tttatatttt ttttttttta ttatttaatt ttatttattt 400

<210> 8919

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-B4

<400> 8919

gaggcatcag tgcagcccga cggcttcgcc ctactgctcg cctcagtgcc agtcggtgcg 60
ttagcagtggt tgccagcagc tcatgcaggt ggagccgcag caccggtacc aggcatctt 120

cggttggtc cttcagcca tctgcatca tcagcctcaa agcggccagt tctcgtagct 180
 tttgtcattt tcaattattt taacatcttt atttttattt tctttccttt ttttttttct 240
 tattttttat tatttttttt attttttttt ttttttaaatt tctattattt ttttttttgg 300
 tgggttttta atattaatat tattattttt tttttattta ttatttttat attttttttt 360
 atttatattt ttttttatat ttttttttta tattatatta tttttattta ttattttttt 420
 atttt 425

<210> 8920
 <211> 221
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-055-Q1-K1-D8

<400> 8920
 aaagtatatg aagggttgta ctgctttgca actagaaact tcaagaaagc gtctgtttta 60
 ttcttggttga gaatgtcaac tttcagcaca tatgagctat tcacatatga tacattcatc 120
 ttctacacag tcttcacgag tggtatatct cttgaccgtg tatctctgaa acaaaaagtt 180
 gtagatactc ctgatatctt atccataatt ttcaaatttc c 221

<210> 8921
 <211> 391
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-054-Q1-K1-G8

<400> 8921
 aggtgacacc tgaggtgatc gtcacagta accgtccgta ccctccagag gagcgtgcct 60
 gctgctgtgc ctgctgttgt cttcctctct ggtggacaga gcgaggagga ggccaccctg 120
 aatctcaatg ccatgaacaa gtcagcacc aagaagccat gggccctgtc cttctccttc 180
 ggccgtgccc tccaggcgag taccctcaaa gcttgggctg gcaaggtgga gaacgtggag 240
 aaggctagag cggccttctt cgccaggtgc aaggccaact ccgaggctac cctcggcacc 300
 tacaaaggtg atgctgccgc ctacacctag agccttcacg tcaaggacta caagtattga 360
 gttgcttctc ttgcatcc cggtgttttg a 391

<210> 8922
<211> 197
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-G9

<400> 8922

gacccacgcg tgcgcgtccg cgtggagccg gagcacgggtt ttcaccagct gaatccgtcg 60
ccgtcatgtt cttcgtttac gtggcgatcg tcacaagtcc agtaccaaac gttccagctc 120
gacatcaaca ggcacaacgt ctgcgccatg gaggtatagg cacaacagat taactgatgt 180
accattgcct acattat 197

<210> 8923
<211> 59
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-H1

<400> 8923

cccacgcac ctcgtctcct cccctctta ccaagtcctc ctctgattag gggttcctta 59

<210> 8924
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-H12

<400> 8924

actgaaccct gctgcttatt ggcattatca actattacca ttcagccagc tatgtactgc 60
ctactctgag cggcaacaac ttcttccatt taaccaattg gccgcactga accccgctgc 120
ttatttgcag cagcaaatac tactaccatt tagccagcta gctgcagcaa accgtgcttc 180
cttcttgaca cagcaacagt tgctgccttt ctaccagcag tttgcggcta accccgcaac 240
cctcttacia ctacaacaat tgttgccctt tgtccaactt gctttgacag acccagcggc 300
cttctaccaa caacacatca ttggtggtgc ccttttttag agtgcttatt agttgtaatt 360
tcaataatta 370

<210> 8925
 <211> 287
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-054-Q1-K1-H2

 <400> 8925

 cgggtccggaa tccggaagga gtactttgat ggcaaattga cgccgttcaa gaagtttgag 60
 cctattcctg aggtcaacaa tgatgctggt tatgtagttg tggctgacaa catccacgat 120
 gtggtcttca agtctggcaa aaatgttctt attgaattct atgccccctg gtgtgggcac 180
 tgcaagaagc tggcgcccat cttggaagag gcagccacca ctctcctgag tgacgacgaa 240
 gtacatggtt gctgactacc acccatacct tatgaaattc tttctaa 287

<210> 8926
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-054-Q1-K1-H3

 <400> 8926

 cgccattcgc cacaaagcca tttgaaccct tcacgtctcc tcgcctcgtt ccccatgtgc 60
 tgcgtctcct tgcccgcgcc gccgctcgcc gtttgccctt cgtctccgca ccgcgcgctg 120
 ttgtccatcc ttgtgcagca aaaatgacgg ctggctacat tgttgggtca ctggtcggat 180
 cctttgccat tgcatacctg tgtgacacat ttatctctga caagaaggca tttggaggta 240
 gcacccccaa gactgtttct gagaaggagt ggtggcaagc cacagacacc aagttccagg 300
 cctggcctcg cactgctggg ccaccggttg tcatgaacct tatcagccgc cagaacttca 360
 tcgtcaagtt cactgagtag gtttgggctg gagaagctgg ttctgctact 410

<210> 8927
 <211> 344
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-054-Q1-K1-H5

 <400> 8927

tactcggctct cggaattccg cgctcgactc cacgcgtgcg cacaacaaca attgcaacag 60
 tttctaccag cgcttagtca actagccatg ggtaagcctg ccgcctacct acaacagcaa 120
 caactgcttt catctagccc tctcgctatg gttaatgcac ctacatacct gcaacaacag 180
 ttgttgcaac agattgtacc agctctgact cagctagctg tggcaaaccg tgctgcctac 240
 ttgcaacagc tgcttccatt caaccaactg actgtgtcga actctgtctg gtacctacat 300
 cagcgacaac cattacttaa tccactgtca gtggctaata catt 344

<210> 8928
 <211> 199
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-054-Q1-K1-H6

<400> 8928
 acgcgtccgc aagattcatg ggttctaagg gacctgtaaa tgcttggtgc ctgtattgta 60
 tgcctcgaca gattggggag cttgaagcat cgacaagtta ctagtcattg cttacttata 120
 taagaacata agtagtattt gctattgtca agtgtgcctt gcttgatgca tgttggtgtt 180
 tcgtattatt attattatt 199

<210> 8929
 <211> 417
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-054-Q1-K1-H8

<400> 8929
 gaagaaacga aaggaagcac atagcctgaa gaggctcgag gttaagaaga ggaggggtga 60
 gaggaggaac tctctcgctt gcaacacttc aaaagaagct gctgggcaga gtccaaaaga 120
 gatgaatgca aacctgaca aattagtaag ttctgatgaa actattgtca gcgctaacga 180
 aagtcatagc agtggcaagc atctggtgaa ggggcttcca ccaaagtacc aggccacaat 240
 tacatcagaa gacagttcgt cagcaatgcg aaagaagcca aactcggcct tcaaagccat 300
 cactgatgag cagaactcat catcgtctgt tccttcttcc ggtgaatcta taagtagcgt 360
 gactgcacca attcttgctt tggtgtcttt ggttccatt acatcaacct tttgttt 417

<210> 8930
<211> 247
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-H9

<400> 8930

attcaggcgg agctgatgaa gaagggtgcac cagtgggtgcg acgaggccaa ctcgatttgc 60
gacgcaggag agtctgccat cgttgcttct atggttgccg tgccgttggt ggggtggcaac 120
ccagcggatc tggtaacggc gctgtgcagc cctgatgaaa aggcccatgg taacttggat 180
ggacagagtg ggcgccaagt agcttctgga ctgtcttcag cagctgctga aatgataaat 240
atttgtg 247

<210> 8931
<211> 151
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-A2

<400> 8931

gaaaagcaaa aaaaaacaaa aaaaataact tatcaaacta caaaaaaaaaaaa aaaatggaaa 60
gatttaatac aacgttggcc cgcccatacc aaactaactt acacacccat ccaactccta 120
acccctttta aaattaaacc taaattcaat t 151

<210> 8932
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-A6

<400> 8932

gccacgcgtc cgctttgggt caactggcct gactaccgag gtgaagtctg gtgagatgca 60
ctcacgaggc gcttcaggag gctcttcagg gtgacaatgt tggcttcaac gtgaagaacg 120
ttgctgtcaa ggatctcaag cgtgggtttg tggccttcaa ctccaaggat gaccctgcc 180
aggaggctgc cagcttcacc tcccaggta tcatcatgaa ccactctggg cagattggca 240

acggctattc tccagtgctg gactgtcaca cctttcacat tggtgtcgag ggggctgac 300
 ttatttttaa tttttacatt tttttatatt tggtttttgt gtttgttttt ttattttttt 360
 tttttatatt ttttttttat tttttatatt ttttcttttt 400

<210> 8933
 <211> 298
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-A8

<400> 8933

cgccgtcatg tcgaagcgag gtaggggagg ttcggctggg aacaagttcg ggatgtcact 60
 gtgtctaccg gtggcggcca cgggtgaactg cgcggaacaac acgggcgcga agaacctcta 120

catcatctcc gtcaaggga tcaagggccg cctcaaccgc ctcccgtccg cctgcgtcgg 180
 cgacatgggc atggccaccg tcaagaagg aaagcccgcac ctcaaggaaga aagtgatgcc 240
 tgccgtcatc gtccgccagc gcaagccgtg gcgtctcaag gacggtgtgt acatgtac 298

<210> 8934
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-A9

<400> 8934

ggattttgat gtcgctgcac tgatgtattt tattgatgct agcaccatcc ctatagttgt 60
 ttcttttagac aagaaccctg acaaccaccc atacctcatg aaattcttcc aaagctcatc 120
 cccaaggct atgctgtttt tgaacttctc caccggacct ttgattctt tcaagtctgc 180
 ctactctgct tctcgtagg aattcaagga caaggaaatc aagttcctta ttggtttaca 240
 tctaattccat ccagttttcc ttccattac ttttgcccta aagattatct gagcgcgcct 300
 tattctcttt ctctattttt acttcatatt attcttttta tttttacttt ttttctttcc 360
 ttttttttct ttatttttat atattctttt tttatttatt tttattttta tttt 414

<210> 8935
 <211> 448
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-055-Q1-K1-B1

<400> 8935

gccacgcgtc cggagcacat caagatacat tttttctgag caaccgccgg ntccggancg 60
tttcaaccct gcatgcgggg ccagcttatt atatataata tctgaggtgg agcatatcta 120
tctggctgtg tactacaagc aatcctagta ctctttcttc tcgtttctac tattacacat 180
tatacatatt ttcttttttt ttgcttattt cttttttccc ttattttttt aatttattat 240
ttttattctt tttatataat tttatttttt taatctatct tattaatatt tattatggta 300
ggatattata ttttttttta tatattttat ttattttttt atttttatat ttataatttt 360
ttatattttt cttttttatt ttaatttata tttttttttt tttttttttt ttcttttttt 420
tttattattt tattttatta ttattttt 448

<210> 8936

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-G6

<400> 8936

cgagaaacac accaagcgaa gcgcactatc aacaacctaa caacaatggc tacgaagata 60
ttatccctcc ttgcgcttct tgcgcttttt gcgagcgcaa caaatgcgtc cattattcca 120
caatgctcac ttgctcctag ttccattatt ccacagttcc tcccaccagt tacttcaatg 180
gccttcgaac acccagctgt gcaagcctat aggctacaac aagcgattgc ggcgagcgtc 240
ttacaacaac caattgcccatttgcaacaa caatccttgg cacatctaac aatacaaacc 300
atcgcaacgc aacagcaaca acagttccta ccaacactga gccacctagc catggtgaac 360
cctgtcgcct acttgcaaca gcagctgc 388

<210> 8937

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-E8

<400> 8937

agcaactagc aacatagaaa gcacaatagt gtaccaacaa tggtagccaa agtatgtgcc 60
tccttatgct ccttgggtctt tctgcaagtg ctgctacgac gaccattttc cgcgaatgct 120
cacaagctcc tatagcttct cttcttcccc catacctctc accagcgttg tcttcagtat 180
gtgaaaaccc aattcttcaa ccctacagga tccaacaggc aatcacagca ggcattctac 240
ctttatcacc cttgttcctt caacaatcat cagccctatt acatcaatta cct 293

<210> 8938

<211> 301

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-E9

<400> 8938

cgcacgcgtc cggctacatc atccatcaga cgcacacggg gcgcaaccag ggacgttcgc 60
tcggactgcy cttcgaccga ctcatggcgc tccccgcgcg ctgcaacctc cccaactcca 120
acgtctcgtc ctgcatcacc ctgctgaacc tgaagccggg ctctgcggac tacgccctct 180
tcgccaaagc ctccaagatc acgccgtcag ccggcggcaa ccctgcgagc gacagcgccg 240
cgggcagcgg cgtcaagctc cgggctgggg tcagcggcgg cgtcgcgcgg gggcgtgtct 300
t 301

<210> 8939

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-F1

<400> 8939

cgtggattca acgagtttat gacattttctg tatgaatcct ctttacctgt ttgccatgtt 60
tgttatttat cttgtttgaa aagccctttg attgcaatca taaattgtca tataattcca 120
acattgattt ctattcttat atttttttat tttttattaa ttttattttt atttttattt 180
attattttta tttattatat ttttatttct ttattttttt tttttttttt tttttatatt 240
attatatttt tttttatttt tattttattt tttttttttt tttttttttt tattttattt 300

ttgttgtgtt tttttatttt ttttttttct tttttatttt tttttttttt tttatttttt 360
tattatttta attctttatt tatatttttt ttttttttat ttttt 405

<210> 8940
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-F11

<400> 8940

gcaacataga aagcacaata gtgtactcaa caatggcagc caaaatattt tgctgtgtta 60
tgctccttgg tctttctgca agtggttgcta ccgcaaccat tttcccacaa tgctcacaag 120
ctcctatage ttcctttctt ccccatatac tctcaccagc ggtgtcttca atgtgtgaaa 180
accaattgt tcaaccctac aggatccaac aggcaatcgc aacaggcatc ttaccattat 240
cacccttggt cctccaacaa ccgtcagccc tattacagca gttaccttg gtccatttgg 300
tggcacataa catcatggca caacaactac aacaacttgt gctagcaaac cttgctgcat 360
actctcaaca acatcaagtt cttccattca accaactggc tgcattgaac 410

<210> 8941
<211> 335
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-054-Q1-K1-F12

<400> 8941

agggtgacaa cattgttcag gatgctcctg cagatattcc ttccttcta taagtnaagc 60
gtatctacta tgaactgatg attcgatatt acttgacaaa caatgattac ctggaaatct 120
gtcgttggtta caaggctatt tatgatatcc cagcaataaa ggaagatcca accaagtgga 180
taccgattct taggaagatc tgttggtact tgggtgctagc acctcatgat cctatgcaat 240
cgagccttct caatgctaca ctagaggata aaaacctatc agagatgggg gatttcagga 300
tattgctgaa gcagctgggt accatggagg tcatt 335

<210> 8942

<211> 359
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-054-Q1-K1-F2

 <400> 8942

 gggagcttgc ctccccctta gctactgccg ccgctgccac ggccggtgcc tccttgctcg 60
 ctgccgcctc gctccggggc tgggtgggacg atgtcaacga gtcgccccag tggcaagacg 120
 gggccttctt ctccctcgcc gccgcctacg ccctcgtctc cgccgctcgca ctgattcagc 180
 tcgtcaggat ccagcgccgg gtgccccaggt tcggatggac cacgcagaaa gtcttccacc 240
 tcatgaactt ccttgtaaat ggggtccgtg ctctggtgtt cggcttccat gtccatgtct 300
 tcctccttcg cacataagta tacaagttgg tgttgctaga tctccccgct tgggtggttt 359

<210> 8943
 <211> 389
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-054-Q1-K1-F3

 <400> 8943

 cgccaagttt gtaaccctag ccgccaagct tgaagctcca gccgtgctcg tgtagggctg 60
 catgccatct ggggtccggc ttccggcatc caccaggcgt caatacgggtg cagcgagcag 120
 cgagcagcaa gtcaccgagc agccgagcga ccgccgagca cagggcacca ccgagcagcc 180
 gagccaccgc cgagcaccga gtcttctctg ttcttctgtg gcgaacaagg tcaatccagg 240
 gccgtggtgc ggggtgctggt ttttttttcc aacatgttta tggtggtcgc tcgaccgctg 300
 caacaatgaa gatacagaaa gcaaatgcag gtgtccttac aaacttcgaa gtccttgact 360
 tcttgcggtc aagagggtgcc aaaattgac 389

<210> 8944
 <211> 146
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-054-Q1-K1-F6

 <400> 8944

gggtccctct tcacgtgcc cttctttcat gtcgtgtcca agatcgccga ctacgtccgt 60
tatggagtgg ttgggcagca tcaccacca gaactccatg tacaccacc agtctgacaa 120
gacatccatg tcacaggaac tgtctc 146

<210> 8945
<211> 315
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-054-Q1-K1-F8
<400> 8945

ctctacctct acctaccgga gcaggttagca cgccgcacga gccctttccg ccgccgcaa 60
aatggtgaac gttcctaaga ccaagaagac ctactgcaag aacaaggagt gcaagaagca 120

cactctccac aaggttactc agtacaagaa gggtaaggat agcctgtctg cccagggaaa 180
gcgccgttat gaccgcaagc agtcaggata tggtagccag accaagcctg tcttccacaa 240
gaaggccaag accaccaaga aaatcgtgtt gaagctgcag tgccagagct gcaagcacta 300
ctcacagcac gcaat 315

<210> 8946
<211> 409
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-054-Q1-K1-F9
<400> 8946

caacaagcaa catagaaagt ggaattcagt agcaacaata gagcaacaat ggcgggcaag 60
atattttccc tccttatgct ccttgctctt tctgcatgtg ttgctaacgc gacaattttc 120
cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaatgata 180
gcttcagtat gtgaaaaccc agctcttcaa ccctataggc tccaacaagc aatcgagca 240
agcaacatac ctttatcacc cttgtttcaa caatcgccag ccctatcttt ggtgcagtca 300
ttggtacaaa ccatcagggc acagcagctg cagcaactcg tgctacctgt gatcaaccaa 360
gtagctctgg caaacctttc tcctactct cagcaacaac aatttcttc 409

<210> 8947

<211> 105
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-G10

<400> 8947

accacacctc ttctttttct tctctctcct cctagcacat ctatctgctg ctcccaaact 60

tgtgtgatca tgtcttgcac catcttcaag ttcaactgtt tcttc 105

<210> 8948
<211> 290
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-G11

<400> 8948

agtcggggag gattgtctgt aacgtgtcct agtagagtat ctgcagctat gggacgtggt 60

ttatggggta gtgctgcaac ctgacatcgc agaccaacac atctggcgcc tctctgctca 120

tgggtacttat tgtagcaaat cggcctatga tgctctcttt gttggctcta tcccttttgg 180

cccttggcga cgtgtctgga agacctgggc cccttaaga tgcaaattct ttgtatgggt 240

ggcaatcaaa aacaggggtt ggacagctga tcgacttgca taatgagggg 290

<210> 8949
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-G12

<400> 8949

gcggggagaaa gcacaatagt gtaccaacta atggcagcca aaatattttg cttccttggt 60

ctccttggtc tttctgcaag tgctgctacc gcaaccattt tcccacaatg ctcaaacgct 120

cctatagctt cttttcttcc ccctacctc tcaccagcgg tgtcttcagt atgtgaaaac 180

ccaattcttc aacctacag gatccaacag gcaatcgag caggcatctt acctttatca 240

cccttggttc tccaacaacc gtcagcccta ttacagcagt tacctttggt gcatttggtg 300

gcacaaaaca tcaaggcaca acaactacaa caacttgtgc taggaaacct tgctgcctac 360

tctcagcaac agcagtttct tccattcaac caactggctg cattgaactc tg

412

<210> 8950

<211> 70

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-G3

<400> 8950

attcccgctc taccacacct ccgactttat tatgaccatg catatatattt gttcatacca 60

cacatgataa 70

<210> 8951

<211> 237

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-G4

<400> 8951

ataaggagtt acatttccag attctttttt tccacatata tcatccaaaa aacttgattg 60

tttaattaca acttataagc aatctaaaat agggcaccac caatgatgtg ttgttggtag 120

gatgctgctt tgtttttcaa attcaatatt taaaaatttc ttcaattgtt atttttttta 180

attttttttt tatatatattc aattttctttt aatttttttt ttttcatttt tttttat 237

<210> 8952

<211> 237

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-G5

<400> 8952

caaaatattt tgcttctctga ccgttctttt tcaatcttca attcttctac ctcaaccatt 60

ttcccacaat tctcacaatc tcttatagct tcttttcttc ccccatacct ctcaccatct 120

atttcttcag tatttttaaaa cccaattctt caaccctaca ttatccaaca ttcaatctca 180

tcatacatct tacctttatc accctttttc ctccaacatc catcatccct attacat 237

<210> 8953

<211> 332
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-054-Q1-K1-D1

 <400> 8953

 cggacgcgtg ggatgatcat cagtgtgcc atttggatca gtcggttct tcttcggcgg 60
 gaaggttccg gcggcttcca gtgatgtgtt cgccacagaa cgagcagcac ctgctgcagg 120
 aacaaacact taacaacaat gctcgtcctc cggagaagag gcagcgggtt ccgtcggcgt 180
 ataacagatt catcaaggaa gagatacgca ggatcaaagc gaacaacccc gacattaacc 240
 acaggggaagc cttcagcacg gcagccaaga attgggcaca ttatccaaac atccatttcg 300
 gtttaaacga ctccgggcga gaaggcaaga ag 332

<210> 8954
 <211> 287
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-054-Q1-K1-D11

 <400> 8954

 gacaagatta aaaaaagct tggctttcgg aaggaggatc ttcccaagat ctagtaggag 60
 cttgaattgg aaattgccaa aagtgaactg actgaactta agaaggaatg cgttgaagca 120
 atggagactc aactcaagag ggaggagttt caagatgagg agatgcctga tgtcaggaaa 180
 ttggacatca gaaacttcct gtaggcctga tcgacgataa tctttgaggc ccaacgcacc 240
 tctggttttag gtttcaagtt gatcgggtgct tcatacctat taatgct 287

<210> 8955
 <211> 329
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-054-Q1-K1-D12

 <400> 8955

 caaaaaatgg ctttcagatg tatacatcat ggacacaatg tcaactggagt ttagataatt 60
 agctgttact ggatctgtgc cacctccaag atgtgggcat tcggcaacca tgattgagaa 120

gagactcctt atatttggag gcagaggtgg agcaggacca ataatgggtg atttatgggc 180
 tttaaagggt attactgaag aagacaatga ggcgccaggt tggacacagt tgaaacttcc 240
 agggcaatct cccttaccac gattcgggtca ttcattatca tctggtgggg ggtatctatt 300
 gctttttgga tgactattgt atctgtttt 329

<210> 8956
 <211> 290
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-D3

<400> 8956

cgcacgcgtc cgatttcaaa tccttctatc gcgcagcgcc gcccgccctc tcgcaggttg 60
 tccgatggcc cgcacgaagc agacggcgag gaagtcaact ggcggcaagg cgccgcggaa 120
 gcagctggcc accaaggcgg cgcgcaagtc ggctccggcc accggcgggc tgaagaagcc 180
 gcacaggttc cgccccggca ccgtcgctct ccgcgagatc cgcaagtacc agaagagcac 240
 ggagctgctc attcggaagc tgccctttca gctgctggtg cgtgtgatcg 290

<210> 8957
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-D5

<400> 8957

ctgggtcttc agaccattag ctttatctac tccagagcgc agaagaacc gagctgcacc 60
 atgagggtgt tgctcgttgc cctcgctctc ctggctctcg ctgcgagcgc cacctccacg 120
 catacaagcg gcagctgcgg ctgccagcca ccgccgccgg ttcattctacc gccgccggtg 180
 catctgccac ctccggttca cctgccacct cctgtgcac tcccaccgcc ggtccacctg 240
 ccgccgccgg tccacctgcc accgccggtc catgtgccgc cgccggttca tctgccgccg 300
 ccaccatgcc actaccctac tcaaccgccc cggcctcagc ctcatcccca gccacacca 360
 tgcccgtgcc aacagccgca tccaagcccg tgccagctgc agggaaacctg cggcggttggc 420

a

<210> 8958
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-D6

<400> 8958

cggactcttt atcagaccca ttgactatc cttctatcaa taccatcaat catgatgcat 60
cttattaata ttggcaccaa atcaaatctg caacatcaat tatctaactc caaaaacccat 120
gaatctggtg cttgtggttc ttgctttcat tgctttaata tcaagtgttt cttgtacaca 180
gacacgcagc tgtatctttc atcaacaaca aattcatcat catctacatc atccacatca 240
acatcatcca caaaaacatc aacatcaact acaaccacaa catcatcatc atcagcgaca 300
tctacaacaa cattttcaca ttctacctca tt 332

<210> 8959
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-D7

<400> 8959

taaacatcaa tggttgattg aattaattta aaaaaaaaaa aaaaaaaaaa aaaaagaaag 60
ataaataaaa aaaatagaaa gaaaaaaaaac aaacaaaaaa aaaaaaaaaa aacacaaaaa 120
cactccctcc cctctacata ttccatcttt actccccctt cttttcaaca tcttccctct 180
tctatacctc ccctaattt catttcacct cctcctttt caaaatttct caccttcaaa 240
acccttccct ttccccaacc tattctcctt tcttcaattc ccccttttcc ca 292

<210> 8960
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-D8

<400> 8960

caaggagggc gcatattggg gcaactgttg tggagtttat gtgggcatgg tggacgtcgt 60

gtaaaggggc cgtggccgca gtgactggaa gaacgcgatg atcgggggcg ccttgtccgg 120
 cgccctgacg tccggcgcca gcaacagcta cagaggcatg gtcgtctagg actccatcac 180
 cgtctgcgcg gttgccacag ccgtttatatt cattatctgc attacctatc tgttttttta 240
 tcatctgcat ttttattttt attgtcttgc ttttttttta tttttttctt ggggggtggt 300
 ttttttttta tttatttttt tttttatttt tttttttttt ttattttttt ctttttttat 360
 tatttttttt tttattttatt tttttatttt ttttctttta tttttatttt tatttttttt 419

<210> 8961
 <211> 357
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-054-Q1-K1-D9

<400> 8961
 ggctgtgcac cagcgccacc gtgtcaattg cgctcatgag ctacgtgcag tacgacgtgt 60
 tctggggcct cggttcggc gtgcggtcca tggccatgct actcgcgctc gccatcttcc 120
 tgctcggcac gaggacctac aggtttctacg gctcccgcg tgggtgctgtt tccaattcca 180
 gcttcttttt tattttttat tattttatat tatatttttt atttatatta tttattttatt 240
 tatttttttt ttattttatt ttattttttt tttttttttt tatattttatt gggggggggg 300
 tttattttatt tattttttta tttttttttt tattttttat tttttataat ttttttt 357

<210> 8962
 <211> 424
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-054-Q1-K1-E1

<400> 8962
 agcgcagcaa gcaacatacc tttatcgccc ttgttgtgtc aacaatcgcc agccctgtct 60
 gtgggtgcagt cattgggtaca aaccatcagg gcacaacagc tgcagcaact cgtgctacct 120
 gtgatcaacc aagtagctct ggcaaaccct tctccctact ctccgcaaca acaatttctt 180
 ccattcaacc aactgtctac actgaaccct gctgcttatt tgcagcaaca actattacca 240
 tttagccagc tagctactgc ctactctcaa caacaacaac ttcttccatt taaccaattg 300

gccgcactga accccgctgc ttatttgcag cagcaaatac tactaccatt tagccagcta 360
gctacagcaa gccgtgcttc cttcttgaca caacaacagt tgctgccgtt ctaccagcaa 420
tttg 424

<210> 8963
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-E11

<400> 8963

caatgccaac atggatacag aagcttacac agaagttcct caacagtcct gttgcagtgg 60
accttggttg tgaggatgac cagaagctgg ctgaaggaat tagtctgctc tctgtctctt 120

cggaaaaccg tgaaaaacca gctgttcttg ggaaattgat taaggaacat gcaaaaggtg 180
gcaagtgcatt tgtttttaca caaacaacaa gggatgcaga tagattgtca cacaatatga 240
gtcgaagttt ccaatgtgag gcgcttcatt gggatatctc tcaatctgaa agagagagga 300
cactggcagg atttcgggat gggcggttta atatattgat tgttactgat g 351

<210> 8964
<211> 231
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-E12

<400> 8964

cgcacgcgtc cgcccacgcg ttcgttctac tctcagcaac aacaacttct tccgtttaac 60
caaatggccg cagtgaaccc cgcttcttat ttgcagcagc aaatactact accatttagc 120
cagctagctt cagcaaaccg tgcttccttc ttgacacagc aacagttgct gcctttctac 180
cagcaatttg cggctaaccc cgcaaccctc ttacaactac aacaaattgt g 231

<210> 8965
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-E2

<400> 8965

cgcacgcgtc cgggcaattg cagaatgcga cgacgtgaag agcaaaaacc cggatgggtg 60
aatcgtagat aaatacaaca cctccaaacg atcagtgtcg cttgtgcaga agcaccgaga 120
gagcaaaaag gagaaaaaga agcaaaagca gcacgagaaa gaggaatggg agggaaacca 180
cccatggaag ccatgggacc gggagaagga tctgtctgct gggcgccaga atgtggcctt 240
agacgcagag aacatgtcgc aaggattatc ttcccgtttc gcgtctggtg ctgttcagcg 300
gaacttcctg tgagctgtgt ggaaagatac tcctggagca tggctctaac gatgatcaat 360
gtccagttat tacaatctgg tccgcagatg gcaaagaata tgcttacata taaaaa 416

<210> 8966

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-C9

<400> 8966

caacaggcat cttaccatta tcacccttgt tcctccaaca accgtcagcc cgatgacaag 60
agttaccttt ggtccatttg gtggcacaaa acatcagggc acaacaacta caacaacttg 120
tgctagcaaa ccttgctgca tactctcagc aacatcagtt tcttccattc aaccaactgg 180
ctgcattgaa ctctgctgct tatttgcaac aacaactacc attcagccag ctagctgctg 240
cctaccccca gcaatttctt ccattcaacc aactagcagc attgaactct gctgcttatt 300
tacagcagca acaactacta ccattcaacc agctagctga tgtgagccct gctgccttct 360
tgacacaaca acaa 374

<210> 8967

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-E3

<400> 8967

agagacacca gacatcacat ccattgctcc cattcccact attgctgaag gcgatgagtc 60
tgtatttgtc aactccaatt caaacagctc gatggtgcct cctgtcctgg agaacaatgc 120

tgttgatctc actgatgggc tgacagattt ggaatcctat atgagggttc ttatggatgg 180
 cggtgcaagt gattcaattg atagccttct gaaccttgat ggatcacagg atcttggttag 240
 caatatggac ctctggacct tcatgacat gccatcgct ggcgatttct tctgaggaat 300
 ttgaagcttg gccataggac tatgtacata gggactaggg aataaagact gggagattgt 360
 gaagcacctg cttggcacct tgtggtagca tatgctcgtg tctagc 406

<210> 8968
 <211> 313
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-054-Q1-K1-E4
 <400> 8968

ctcgactcca cgcattccgag ctgatacata tcatctttga gaatgtcgat ctcatgctta 60
 tcaaatttga acaagaatga tegtctggat catttggtga tctataccat gtgacgtact 120
 gtactcaaaa tgtacctatc aaagtactca agccttagcg tattagcgtt gatattctac 180
 gtgagtatcc acagcaagat tatataatga cacaattttt taacactaca gtattccact 240
 ttatttcacc attcacatca catccttatt actctattat caccaacaat aatcattcca 300
 attacatcaa tta 313

<210> 8969
 <211> 378
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-054-Q1-K1-E5
 <400> 8969

cggacgcgtg ggcggtgaag ttgagtttat tccaatttta tcaactagcg ttgcatgtgg 60
 tgtgtacatg gcagtttcca gtaacctcag gtaccagggt ttagctggag tgattgaaca 120
 gcggatgctc gagccactac tgcaccagca caaactagta ttgagtgcag catgttttgc 180
 agttcggaca ggggaatacgt ttttgggttc cctactgtgg atcgactatg ccagggtggat 240
 aggcttacag tacgctcaag catgggtaca catatgcagt tgctctgagt ggcagcaata 300
 ttgttacttc gtaattttat attatcactc ctttcttcaa ctggcaagtt ctcttttgc 360

tatatgtgtt acttttat

378

<210> 8970

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-B11

<400> 8970

cggacgcgtg ggcaactagc aacatagaaa gcacaatagt gtaccaacaa tttgatccaa 60

aatattttgc ctgcttatgc tccttgggtct ttctgcaagt gctgctacgg cgaccatttt 120

cccgcaatgc tcgcaagctc ctatagcttc ccttcttccc ccgtacctct caccagcggg 180

gtcttcggta tgtgaaaacc caattcttca accctacagg atccaacagg caatcgcagc 240

tggcatctta cctttatcac ccttggttct ccaacaatca tcagccctat gacaacagtt 300

acctttgggtg cattttattgg cacataacat cagggcacia caactacaac aacttgtgct 360

agcaaacctt gctgcctact ctcagcaaca gcattttctt tcatt 405

<210> 8971

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-B5

<400> 8971

cggacgcgtg ggcggacgcg tttgcttacg cgtgggggac ttcaaaactg atgggggtttt 60

ccagagccat gcggtgcttg ccctccagga ggctgctgag gcataccttg ttggcctggt 120

tgaggacacc aacctgtgcg ccatccatgc taagcgtgtg accatcatgc caaaggacat 180

tcagctggca aggaggatcc gcggcgagag ggcctaatacg ccacctcaaa catcgtgaca 240

aaaacatgaa gtccctgggggt tattgttaat ctgggtccat tgtaaggaca tatgagtagg 300

gtttgttttg ttgatcgcaa gtttctcttt tgctactggt gctgctacct ttgctgatgt 360

tattgctagg ttcttattcc taagttaact a 391

<210> 8972

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-B7

<400> 8972

cggacgcgtg gggcgaaggc tacccttctt ccttcgctcc ttccgcgccg ccgccggtcc 60

gtcgccgccca tgggtgaagta ctcgcaggag ccgggcaacc ctaccaagtc ggctaaggcc 120

atgggcaggg atctgagggt ccacttcaag aacacaaggg agacagcctt tgcgcttcgc 180

aagttgtctt tgaccaaggc taagcgatac cttgaggatg ttattgctca caagcaggca 240

attcccttcc ggagatactg tgggggtgtt tgttattttt ttttaatctt aa 292

<210> 8973

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-B9

<400> 8973

ccaagaagtc accgccgccca ccgatatagg ccatacttct cgtcctattc cgatgccacc 60

ataactgccg cttgatctgt agctcgaagg gtttcaagga cggtggtctg tgtgacgaaa 120

gcgtggagca caaagtgtgc tgctgctccc attagaaata taatagcgta tgttatgttg 180

atgcatatat atatgcatca tccatctacc tgtgtggtgc aaaattctga ataaaacctg 240

aataaaacct gattgagcac ataaaataaa a 271

<210> 8974

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-C1

<400> 8974

cgcacgcgtc cgcccacgcg tccggcttga gccggagccg gaggcctagt agatgaggac 60

gttcgatccg tggccggtct tcttccgccg ggagtggaag cgcaattggc ccttcctcac 120

ggggttcgcc atcaccgggt tcatcatcac taagatgacg gccaaacttca ccgaggagga 180

cctcaagaac tccaagttcg tccaggagca caagaagcgc tgaccaacca agtgttgtcc 240

gaattgacctg tctggacagc cagttatggt atgctgtttg aatgaaaaat tagcttcttt 300
 ttcttcatct aaatgcgtgc agcctatgct ccatctgtaa tgtaataaga ggcaactgac 360
 ttgatccaaa agctaccagc ttctgattat gaatgatact tcaagtttt 409

<210> 8975
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-C10

<400> 8975

gttggttagcc aagctgttat ttcatacaaa ttctccattg tgaaacaatg ccagtctttg 60
 ggatgtttgc gacgagtga ggttggtcac acatcgaggt ggatctatgg gcagatatat 120

attccagaaa taaattggat tcttatgggt ctttgtgttg ctgtcactat tgcatttcgt 180
 gatactactc ttatcggcaa tgcctacggt attgcctgca tgactgctat gttcgttact 240
 acattcttga ttgcttttat aattaatatt gtttgtcatt tgggtggtggg ggggtgtattt 300
 attttttttt atatttttgt aattatttta ttttataaat attatttatg tttttttttt 360
 atatattttt tttatttttt tttttttttt attttttttt a 401

<210> 8976
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-C11

<400> 8976

cggacgcgtg ggcggacgcg tgggttctac ttctcgaagt tgcgtgatat gaagatactg 60
 tgtcaacggc ctgagttaga gcatctaccg atgactaagg cggtcaggaa gatactttat 120
 gcagctgatg caaaggattc accgctacct gaggcgaatg atataatcac aaagtcacca 180
 agcttgttct caaatgaaac cgagtgaagt gtgcggctac atgagctaatt tttggtgctt 240
 attttccatc attgatcgct ttagttttta gttttttttt ttgggggggg ggtttgtttt 300
 tttttttttt gttttgtttt tttttttttt tttttttttt ttttttttgt tttttttttt 360
 tttttttttt tttttttttg tgtttttttt tttttttgtt ttttt 405

<210> 8977
 <211> 184
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-054-Q1-K1-C12

 <400> 8977

 aattccgggg gacacgcgca caatgctcgc tcgggctggt actcgtgctg cttgccctcc 60
 gtttcctcac gcggaaaaag agtccggctg caaccgggat gttggcggcg ataagactcc 120
 ggcaacgaaa cacctcactc aggactggcg cttgcctatg accaccaaag cctgcttttg 180
 gggt 184

<210> 8978
 <211> 301
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-054-Q1-K1-C2

 <400> 8978

 cggacgcgtg ggcgacgccg ccgcctctag ccgtccgcct tgccttcac gaaggcgtgg 60
 gcctcctcct tgtatctgca cteccccctt cacagatccg ttcctccagc tagggtagc 120
 gttcctctgc agcgatggcg atcaagcgga ccaaggcgga gaagaagatc gcgtacgaca 180
 agaagctgtg cagcctgctc gatgagtaca ccaagggtgt catcgccctc gccgacaacg 240
 tcggttccaa gcagctccag gacatccgcc ggggcctcat gggcgactcg gtggtgctca 300
 t 301

<210> 8979
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-054-Q1-K1-C4

 <400> 8979

 agcaacatac atagtgaagt aactatcaa catcttagca ccaatgggag ccaatgtttg 60
 tgctcctcct gccctccttg ctctttcagc aagcgctgct acctcgactt ttattccaca 120

atgctcacia caatacctct ctccggtgac agccgcggga tttcaatacc caactataca 180
atcctacatg gtacaagagg ccatccaagc aagcatctta cggtcattag cattaaccct 240
ccaacaacca tatgctctat tgcaacagcc atccttagtg catctgtatc tccaaagaat 300
cgcggcacaa caactacaac aacagttgct accaacaatc aatcaagtag ttgcaacgaa 360
ccttggtgct tacctcgagc aacatcagtt tcttcattc aatcaactag ctgggggtgaa 420
ccctgctt 428

<210> 8980
<211> 266
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-054-Q1-K1-C5

<400> 8980
accacgcgt gcgggtggcg tcgtaacgag ccagtttctt gctggccgcg gtgaccgcgc 60
tcttctcgtc tgctgttttc gtcgcggcgc ttcacctcta cgcgcggtgc ctctgcagc 120
ggcgcgtcgc cctcgcgga ggcagccctc gcgtggtcgc gctgcagcgc cagctccgcg 180
cggacggcta cgtggttgag gtcgtttctta tttttcttat acttcttcgt tttcatttta 240
ttatttttat ttttttttat tttttt 266

<210> 8981
<211> 298
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-054-Q1-K1-C6

<400> 8981
gcgcacgcgt cggaagataa caatactaca gatgtatcta ccgattctac ggagggatta 60
aatcccaaac aattaccatt tcatgaagtt gcacaagatt accaggaggt tgacagtgtc 120
attccggaga gcaatgaaaa tcaggaccgc cttttcactg gagatgcaac ccatcaggtt 180
tcatcgaatg attgttatga agctggaatt ggtatcgct cagaggccag taacatcatt 240
cacaatgatt taccagaaga atcagccgct gctgatttcc cgtggtgat acctgatg 298

<210> 8982

<211> 286
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-C7

<400> 8982

cgcacgcgtc cggaaatgga aaggaataat atataaggaa aaaagatgat tggaaagtat 60
gtactgtagt aataatgtaa tggagccgct ggctagctac ctagctcgct agtttactca 120
tttagcggcg atgagtaacg tagtgtcacc catcaccatg ggtggcagtg tgagcaatga 180
cctgaatgaa ccattgaaat ggaaaggaat aatatataag gaaaaaagat gattggaaac 240
tgataaaatt aataatttaa attataataa ataaatttta atattt 286

<210> 8983
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-G5

<400> 8983

gccgcggcct cgatcggagt cggaggcgaa cacccecatg gcggcggctg gcggcggcgc 60
aggagggaag gtatccttca agatcatcct cacctccgac cccaagctcc ctttcaaagt 120
gttcagcgtg cccgaggcgg cgcccttcac cgcggtgctc aagtacgccg cggaggagtt 180
caaggtcccg cccagacca gtgccatcat caccaacgat ggaattggca tcaacccccca 240
gcaaagtgca ggcaacgtgt ttctgaaaca tggttcggag ctgcgctctca tccctcgcga 300
tagagttgga gctgtagtca tgtcttccgg ttagaggata tatacagtc aatgcataat 360
gagcaaaact tgagagaaat aaagctttga tggtggcctt gcttggct 408

<210> 8984
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-G6

<400> 8984

cccactcgtc cgcagaaata agaagttaca tttccagatt ctggttggag gcagggataa 60

cacaaaggaa agaatactaa aaaatcaaac aaaaaaaaaa aacacaaaca aaatgccaac 120
 ctgtacaaag tacccaagcc tacatacctt cacctccgag ctcaaatacg ccacatagga 180
 gcacaaaaac ccaaccacaca ccacttccat caacaccaac gatacaataa aaaccaaccc 240
 ccaaccaaac tcaatcaact tgcatacaca acatctttcg caacttcgcc tcatacctaa 300
 caatacagta ccaactgcac tcacgaacag cggtctaaacc atatatacaa tacaaa 356

<210> 8985
 <211> 412
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-053-Q1-K1-G7
 <400> 8985

ctagaatcgc attggttggt cccaatggtg cagggaagag cactcttctg aagcttatga 60
 ctggtgacct tgctccatta gatggcatgg ttcggcgcca caatcacctg cgcattgcac 120
 agtaccatca gcatcttgcg gacaagctgg atctggacat gccggctctg gcttacatga 180
 tgaaggaata ccctgggacc gaagaagaga agatgagagc tgctgttggc aggtttggcc 240
 tatcaggaaa ggcgcaggtg atgccaatga ggaatctttc tgatgggcaa aggagccgtg 300
 tcacttttgc atggttggca tataggcagc cgcaactgct actgctcgat gagccgacaa 360
 atcatttga cattgagacc attgactccc tggcggaggc actgaatgaa tg 412

<210> 8986
 <211> 413
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-053-Q1-K1-G9
 <400> 8986

caaactctgcg gcatcatcgc ctacagatgag aagcgacatg aaactgcgta cacgaagatc 60
 gtggagaagc tgtttgagat cgaccctgat ggtaccgtgg tcgctctggc tgacatgatg 120
 aggaagaaga tctcaatgcc tgcccacctg atgtttgacg ggcaggacga caagctgttc 180
 gagcacttct ccatggctgcg gcagaggctt ggcgtttaca ccgccaggga ctacgccgac 240
 atcctcgagt tcctcgatga cagggtgaag gtggcgagcc tgactggtct gtcgggtgaa 300

gggaacaagg cgcaggacta cctttgcacc cttgcttcaa gaatcaggag gctggaggag 360
 agggcccaga gcagagccaa gaaagccggc acgctgcctt tcagctgggt ata 413

<210> 8987
 <211> 245
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-H11

<400> 8987

cccacgcgtc cgcccacgcg tccgcccacg cgtccgatga aaagaaaaaa gtatgagtca 60
 ttcaggatcat tgctcacact gacactgccca cccatgggtga tgcgtgacac attattactc 120
 aatcatcgcc gctaaatgac tcaactagct agctagccag cggctatact acagcaccctc 180
 tatectgggc cattgcttca agttcctgag gcatactgc agcctgactg caactcccta 240
 ctgct 245

<210> 8988
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-H12

<400> 8988

aaaccttgct gcctactctc agcaacagca gtttcttcca ttcaaccaac tagctggatt 60
 gaactctgct gcttatttgc aacaacaact accattcagc cagctagctg ctgcctaccc 120
 ccaacaattt cttccattca accaactggc atcattgaac tctcctgctt atttacagca 180
 gcaacaacta ctaccattca gccagctagc tgggtgtgagc cctgctgcct tcttgacaca 240
 acaacagtta ttgccgttct acctgcacgc tgcgcctaac gctggcaccc tcttacaact 300
 gcaacaattg ctgccattca accaacttgc tttgacaaac ccagcagcgt tctaccaaca 360
 acccatcatt ggtggtgccc tcttttagat ttcttatgag ttatagttca ataataaagt 420
 tttt 424

<210> 8989
 <211> 416
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-H5

<400> 8989

cggacgcgtg ggccgcgcct ctacatttct tctctctctg ctctccgcg tccgcctgat 60
ccatccaaga cagggatcgc catgtcggac tcggaggagc accacttcga atcgaaggcc 120
gacgtgggg cgtccaagac ctaccgcag caggctggca ccgtccgtaa gaacggcttc 180
atcgtcatca agaaccgtcc ctgcaagggt gtggagggtt ctacctcaa gactggtaag 240
catggccacg ccaaagtcca ctttgtcgcc atagacatat tcaatgggaa aaagcttgaa 300
gatattgttc cttcatcaca caactgtgac attccgcgtg tgaaccgtac tgagtatcag 360
ctgattgata tttctgagga tggatttgtg agccttctta cttcagatgg caacac 416

<210> 8990

<211> 170

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-053-Q1-K1-H7

<400> 8990

cccactcgtc cgctgccatt ctaccacag gatgtggcaa acaatggcag caactgttgc 60
tggttgaaga aggcgttaat gttcccaca acctgtgggt aaaatggcag cggtcgcgtg 120
ggcggtcgcg tagttaattt tgtggtatat gtagnttatt gaatgggaaa 170

<210> 8991

<211> 424

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-053-Q1-K1-H8

<400> 8991

gaattcctg cgattcctct cccctcgcct cctcgtctcc ccctagggga tcgggggaga 60
ggaatcgcaa agagggccgt ctcatccgag ttaaggaagc catggagcac aaggaggctg 120
ggtgccaggc ccccgaggga cccatcctct gcatcaataa ctgtggcttc ttcggcagcg 180

cggcgaccat gaacatgtgc tccaagtgcc acaaggagat gataacgaag caggatcagg 240
 ccaagctggc tgcctcctct atcgacagca tctgaacgg cagcgacgcc gtcattggagc 300
 cggttgttgc tggcagcaac acggtagtag ctgttgccca agtcgagttg caaacaatga 360
 acgtgcagca gcccgtgat gttgccggac ccagcgaggn ggtggcggcg atctccaaag 420
 gggg 424

<210> 8992
 <211> 424
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-053-Q1-K1-H9
 <400> 8992

gtgcgtgagg agtctggagt cggacggaaa tcgaaaaggc gaaaactcag tgggtggagt 60
 ttcctcggag cggaggcgat ggctgggaag ggagggaaag gcttgctcgc cgcaagact 120
 acggcggcca agtccgccga gaaggacaag gggaagaagg cccaatctc acgtcctcc 180
 cgcgccggcc tccagttccc tgttgacgt atccaccgtc agctgaagca aaggactcag 240
 gcaaattggac gtgttggtgc caccgcagcc gtctactctg ctgccatcct ggagtatttg 300
 actgccgagg ttctggagct ggctgggaat gctagcaagg atctgaagggt gaagcgtatc 360
 acccctcgcc atttgcagct agccattcgt ggagacgagg aactggacac cctcatcaaa 420
 ggca 424

<210> 8993
 <211> 421
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-054-Q1-K1-A1
 <400> 8993

cagctagcaa catagaaagc acaatattgt accaacaatg gcagccaaaa tattttgctt 60
 ccttatgctc cttggtcgtt ctgcaagtgc tgctaccgca accattttcc cacaatgctc 120
 acaagctcct atagcttccct ttcttcccc atacctctca ccagcgggtgt cttcagtatg 180
 tgaaaaccca attcttcaac cctacaggat ccaacaggca atcgcagcag gcattctacc 240

tttatcacc ttgttcctcc aacaaccgtc agccctatta cagcagttac ctttggtgca 300
 tttgttgga caaacatca aggcacaaca actacaacaa cttgtgctag gaaaccttgc 360
 tgcctactct cagcaacagc agtttcttcc attcaaccaa ctggctgcat tgaactctgc 420
 t 421

<210> 8994
 <211> 376
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-054-Q1-K1-A2
 <400> 8994

cgcacgcgtc cgccacgcg tccgcatcaa tgcacacttc tttcaatcaa gactgntgga 60
 gtcagtgaag attgttctta ctgtcctcag tcatcaagat acaacactgg attgaaggcc 120
 caaaaattga tgaacaaata tgctgtcttg gaagcagcaa aaaaggcaaa agagtctggg 180
 agcaccggtt tttgcatggg agctgcatgg agagaaacca ttggcaggaa atcaaacttc 240
 aaccagattc ttgaatatgt caaggaaata aggggtatgg gcatggaagt ctgttgcaca 300
 ctaggcatga tagagaatca acatgctgaa gaactcaaga aggctggact tacatcatat 360
 aatcataacc tagata 376

<210> 8995
 <211> 409
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-054-Q1-K1-A4
 <400> 8995

cgcacgcgtc cggatacaaa gaagtttgca gctaagaatc gaggaacaag ggaantgtct 60
 gcatatgatg ctagagcagc agtgcatacc cggggcagaa aaggcgcagg atgcttcaac 120
 cgctgcagat gaattgaggt caccttctga gattccagaa tcttctagag tcaaggaagt 180
 tccagaaaac agtcaaaatg gatcaaccaa gcaacaaaa taagctaagg gccgatgaag 240
 ttgcaagcat gaaatgtgtt tcatgatccg attggctgtt tccaggctta aatcaagtgg 300

ttttgtcct ttcttgggaa cagatttact ctatagttaa ttttcttgct aaatctgtct 360
agttctatctt actaggtatt tttttttttt tttcttttct ttattttttt 409

<210> 8996
<211> 236
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-A5

<400> 8996

cggacgcgtg ggattcctga tatcatctat tcgttggcca gatgattaga gggctggaaa 60
tatattaaga acaataccat agagagaagt tctcagtgc tctcgcagct taaggagcaa 120
acagcaacac tttacttcgt tttttatact ttattatagc cgcactgttt attactcggg 180

ctacatttgt gaacagcgac tgtaatatct ttttactcta tattcgtagt gagatg 236

<210> 8997
<211> 313
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-G4

<400> 8997

cagaaacaca ccaagcgaag cgcactaatc acaaacctaa caacaatggc taccaggata 60
tgatccctcc ttgcgcttct tgcgcttttt gcgagcgcaa caaatgcgtc cattattcca 120
caatgctcac ttgctcctag ttccattatt ccacagttcc tcccaccagt tacttcaatg 180
gccttcgaac acccagctgt gcaagcctat aggctacaac aagcgattgc ggcgagcgctc 240
ttacaacaac caattgcccc attgcaacaa caatccttgg cacatctaac aatacaaacc 300
atcgcaacgc aac 313

<210> 8998
<211> 408
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-053-Q1-K1-F1

<400> 8998

ggcgctgaaa aggaacctgg aaccaatggc cccaggcctg atccatgtga ttatgggcaa 60
 ggaggttaag gttggttgaa gttccaggga aaagaacctc ttttaccggg gtacccaaac 120
 cttcaaaaata agaattttct ggtagattgc aagagaatca cgagaacacc cagccaagta 180
 ataatcataa cgattcagta gatcagagtc aactgcccc ttcttcaagc cctactgaga 240
 gtacagatga aatttcatca gaagacgaag aaaataatga taaagagaac atggatccaa 300
 gcgctcagaa taatgatgta catactcttg aacacctnca acaagccatc ggaggaaact 360
 cacgtccaga tgatgctatc ttaaaggatt ttctagatga tgaagctg 408

<210> 8999

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-F11

<400> 8999

cggacgcgtg ggcggacgcg tgggaggagc cgtgggagca aagacacca acgggtgcat 60
 tcttcaacaa tttgaaaatc cagctaacc aaagattcac tatgagacta ctgggcctga 120
 aatctggaaa gctacagcag gaaaaattga tggccttgta tctggtatcg ggacaggagg 180
 taccatcacc ggtactgggc gatacctcag agagcaaaat cctaattgtca agctctatgg 240
 tgtggagcca gtggagagtg ctgttttgaa tgggtggaaaa cctggaccac acaagattca 300
 aggaattgga gctggtttta tccctggagt cttggatgtt gatctccttg atgaaactct 360
 acaggtttca agtgatgaag ctatcgagac tgccaaggct cttgctctga aag 413

<210> 9000

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-F5

<400> 9000

cccacgcgtc cgactgcta ctctcagcaa caacaacttc ttccatttag gcaaggggcc 60
 gcactgaacc ccgctgctta tttgcagcag caaatactac taccatttag ccagctagct 120
 gcagcaaacc gtgcttctt cttgacacag caacagttgc tgcctttcta ccagcagttt 180

gcggttaacc ccgcaacctt ttacaacta caacaattgt tgcctttgt ccaacttgct 240
 ttgacagacc cagcggcctc ctaccaacaa cacatcattg gtggtgccct cttttagatt 300
 gcttattagt tgtaattcaa taataaagtt ttttgatga tgtatgtggc caaccagaaa 360
 taagaagtta catttccaga ttct 384

<210> 9001
 <211> 417
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-053-Q1-K1-F6
 <400> 9001

cccacgcgtc cggcaccgct caagctaagt cgcgccactc caatgggcag ggcgctggc 60
 ccgttaaadc agccaggctc atcctggatt tgctgaagaa tgctgagagt aacgctgatg 120
 tgaaaggctt ggatgtggac aacctctatg tttcacacat ccaggatgaat caagcccaga 180
 agcagaggcg ccgcacctac cgtgctcagc ggcgcatcaa tccctacatg tcctcacctt 240
 gccacattga gctgatcttg tcagagaagg aagagcctgt gaagaaagag gctgacaaca 300
 ttgtcgcagc aaggaagcag tgaagtatat cagcatgctg atcgaggcca ttttgcgaa 360
 gtattatagc cgtagctctt ttatgtacct tttcaggcag ccttgctctc cgagacg 417

<210> 9002
 <211> 414
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-053-Q1-K1-F7
 <400> 9002

gcgacgacga gcaagcaaag gaggccaaga gcccgaagag agcgcccgcg gatggggcgg 60
 cgcgcgcacg tacgcccgtg aagaagaagc tgaaggacca gaaggcggct gcggcaaaca 120
 tgggtgtgtg cagcttctcc atggcgcggg tgcggcagct gatgcgggccc gaggacccca 180
 ccatccgccc ttccagttag gctgtcttcc tcataataa ggcttcagag ttcttcttgg 240
 ggaagtttgc agaggatgct tatcacaatg ccgcgaagga tcgtaagaaa tccattattt 300

acgataatct ttcaacagct gtttccagcc agaagactnt aaagttcctt tcagattttg 360
taccgcagag agttgcagcc gaagatgctt tgaagacaat gacgagcaac aact 414

<210> 9003
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-F8

<400> 9003

gccacgcgtc cgccacgcg tccggaacaa tacacacttg tcttcacgcg ttgggcgctt 60
taatctggac tggactgac cagaccagtc acttgagaag gagaatgcgg catttgaaca 120
ggcaatgata ctagctggaa gtgaatttat ggagagggtt cgcttccatg ttaaatacatg 180

gttaccggca aggtctattg tcctggagtg tttgttatca aaaggaaaca ttgatccaag 240
tgagagaaatc ttggtttttg atagattctg cccgtggaaa cttcatttat ttgagcttga 300
agaggagctg aagactgac ctctgaccaa gtatgtgctg tatcaggatg agaggagcaa 360
gagttggcga gtccaagcag tcgcagttgc tcctgacagg ttcgagagcc gaaaggct 418

<210> 9004
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-F9

<400> 9004

ttactgggat caagcaaggc ctgagcaaag cttctgtggg ggtggtcctt cggcgaaaga 60
agtccgttcg gcaaaaggag atatcttggg gaaagcagtt ggaaacgatg agtcttacga 120
tataagatcc agttttggaa tacaggctcg gcaggaaatg taaaacaga gtagctcggt 180
ctccggtttg acgccaaga ctgagctcgc ggtggcagct gcagattctg cagggtgcca 240
tcgtgacgca atactcgcgt tggcatcctt caacttgtct agccagagat tggatcagg 300
cagcagagac ggcgctgtca aagtgtggaa atagcttctc cagcatgggg taagattaca 360
agtccacagg cgtgtacata ttttggcctg tctagtgtct atacagtaca ta 412

<210> 9005

<211> 180
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-G1

<400> 9005

tgtgcatctc ccaccgccgg tccacctgcc gtcgccgggc cacctgccac cgccgggtcca 60
tgtgccgccc ccggttcata tgccgccgcc accatgccac taccctactc aaccgccccg 120
gcctcagcct catccccagc cacacccatg cccgtgcca cagccgcatt caaacccgtg 180

<210> 9006
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-G10

<400> 9006

aaaaaaaaa aaaaaaaaaa aataaataaa aaaaaaaaaa aaaaaaaaaa aagagagggga 60
taaaaaaaaa acaaaatcat acatgcccgg tctttcttgc tgtttcatgt taacttaaata 120
ctttcttgtc tagccatcgc tatacaatgt agtgactgaa attaaattaa ctggccacag 180
tttaataact ttgcttctga taaacctttg cctttctcca atttaattctt tttgcccctc 240
atccattttt cttcagatcc cttactatcg ctcatccca aattgttccc cctttaaaac 300
ggttccttac cctcattgtc tattggcatt acccccgtcg tgactcatta acttccgcgc 360
tttttatggg tcactccatt gtgtccttta cctttgtctt ttcccatact ccc 413

<210> 9007
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-G11

<400> 9007

ctttccaaca atcaagatga gccgtggcgg tagcgcgggg ggtggtcaaa gttgtggggg 60
ttacctcttt ggaagcgggt agccccccaa accagcagtg gcaccagctg taagtgtctc 120
acctgtgtgt gcaggtgtct cacctgtgtg gaaaccacct gctgcaaagc ctgatggcac 180

cagtcagatt gctgctgggg ttaccagcca aaccaataac taccacaggg ccgacgggtca 240
gaacaccgga aacttcctta cggaccgtcc ttcgaccaag gtccacgctg ctcttggcgg 300
tggtctttcc ctgggatacc tgtttggtgg caactgatgc cgctcaccaa gctatcacc 360
cccactgtcg ccgcatgctt tttctgaatc gtgaacagcc gttgtcattt catgtgtacc 420
caaac 425

<210> 9008
<211> 441
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-053-Q1-K1-G12
<400> 9008

aacttgtgct agcaaacctt gctgcctact ctcagcaaca gcagtttctt ccgttcgacc 60
aactagctgc attgaactct gcttcttatt tgcaacaaca acaactacca ttcagccagc 120
tacctgctgc ctacccccag caatttcttc cattcaacca actggcagca ttgaactctc 180
ctgcttattt acagcagcaa caactactac cattcagcca gctagctggt gtgagccctg 240
ctaccttctt gatacaacca cagttgttgc cgttctacca gcacgctgcg cctaacgctg 300
gcacctctt acaactgcaa caattgctgc cattcaacca acttgctttg acaaaccag 360
cagcgttcta ccaacaaccc atcattggtg gtgccctctt ttagatttct tatgagttat 420
agttcaataa taaaagtttt t 441

<210> 9009
<211> 420
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3059-053-Q1-K1-G2
<400> 9009

gcccggcggg cacattgtca tctgcggcat ctttgattac ctacaggagc gtgcaaaagg 60
tagcaccttg cttggattca agggaggccc tgctgggatc atgaagtgca aatatgtgga 120
gctcacttca gactttgtgt atccctacag aaaccagggc ggattcgata tgatctgcag 180
tggaagggac aagattgaaa caccggagca gttcaagcaa gctgaagaca cagccaacaa 240

gcttgatttg gatggacttg ttgtcattgg tggatgatgat tcaaacacca atgcctgcct 300
tcttgtgaat actntangtc aaggaacctg aagactcgtg ttattggttg cccaaagact 360
atcgatggag atctgaaatg taaggaggta ccaacaagct ttggatttga tactgcttgc 420

<210> 9010
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-E9

<400> 9010

cccacgcgtc cgaaaagagc taaaagcaat acagtacttg gagagaagag agtgtgagta 60
cgaccagaaa atatccattg atttctacaa ggaaggagat cccttgaaac cagctgtgac 120
ggcgctctta gtgttcgttt ccactccaga tccaattggc aacaagtact atcttggccc 180
tgctcctctg caggatatgg caaggcaaat tgctacagcc aatggcccta ctggctataa 240
tagggattac ctgtttctcaa tggagaaggc attagccagc attagccacg aagatgattc 300
gatcatagag cttgcaaacg aggtgaggaa ggtgctcaac agaacaaagg agaccaagat 360
cactggtgcc aatgcttcca tgaaatcaca tgccctctt gtgcacctgt ccgcgctttc 420

<210> 9011
<211> 416
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-053-Q1-K1-D4

<400> 9011

atgaccgttt tgctccaatt tatacacaac ctgcacacct gccaccttca aaggttcttg 60
atcctgatgt gacagacagt gttattggtg aaggatgtgt tattaataaac tgcaagataa 120
accattctgt agttggcctc cgatcttgca tatctgaagg tgctatcata gaggacagtt 180
tactaatggg tgcggactac tatgagacag aagctgataa aaaactcctt gccgaanaag 240
gtggcattcc tatttggtatt gggaaaaatt catgcatcag gagagcaatc attgacaaga 300
atgctcgaat tggagacaat gttaagatac tcaatgctga caatgttcaa gaagctgcaa 360

gggagacaga cgggtacttc atcaaagggtg gaattgtcac agtgatcaag gatgct 416

<210> 9012

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-D5

<400> 9012

cagagtgtcta tgagtgtcaa ccaaagcctg tccctaaatc atatcctgtg tgcacgaatt 60

acaaacacac catcaaagtt tgttcattgc attgtttggg cgaaagatct gctttttgca 120

aaattatttg gtgataaaaa acaggataat gatcttaatg tgcactccaa agatgatacc 180

agttcaaaaa cagatgtttt tgaaaggagt gtagatgaag atcttgagca atacaccag 240

agaatatatg accacgtatt tggttacaac attgaagttg cattggataa taaggaaact 300

tggaagaatc ggagaaagcc aaacctatt tacattagag atgcattgcc tgaagacgct 360

gttcaacaaa atggtcgctc tcaggatcac gtgaatgagg agcaagatcc ttct 414

<210> 9013

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-D6

<400> 9013

cccacgcgtc cgatgaaaag ctatattacc tcccgttctc gttatcccgg tagtgcattt 60

ttaacgaaac agtgacaaat atgaactaaa cagcaacaaa taaaagaaa cggaggggta 120

ctacgctttt ttttatttca gtgcgcgcgt gtctgctcca gacgggtgctg ctgcgcccag 180

tccttgacga tgtgcggctg ctgacccgac gacgaggtcg tggctctgaag gtagcggtag 240

acccacgcca gcacagccac cgcagccacg ccgaaccctc cgcacgaaac gatgcctacc 300

gtgagcagcg ccaccgtgat ggccgccggc accagcacgg ggctgaagat caccatcaat 360

ggcgtcgcca cgatgagcgc cagcaccgtg cccgtcaccg tcagccccga caacaac 417

<210> 9014

<211> 164

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-D7

<400> 9014

ggaataaagc acaccatagc agatctatgt tgcattgttt ctagtttcga agtcgattta 60
tttactttctc tatgattttct acacacggcc taataatctt gctaaggccc tgattgaatg 120
gaaaatatttt tttgggagtt ttaggaaaat actacatttt tgtg 164

<210> 9015

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-D8

<400> 9015

cccacgcgtc cgccgcgcc atgcctcgcc gcagtcagg aaggtctgcc ccacgcccag 60
ctccccgtgc tgcttcaactg aggaaccgc cacagccagc acgccagget cctcctccag 120
ctcctgttcg agatgggtggg ggctccatgt ttggaggaat tgggtccacc attgctcaag 180
gtatggcggt tggcacgggt agtgccatgg cacacagggc tgttgactct gtattaggtc 240
cccgaccat ccagcatgag actcttgcca cagaagctcc tgctgctgcc cctgctgctc 300
cagcgatgaa tgctgatgct tgcagcttcc attctaaggc tttccaagat tgtctcaaca 360
actatggcag cgagatcagc aagtgccagt tctacctaga catgctgaac gagtgccg 418

<210> 9016

<211> 360

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-053-Q1-K1-D9

<400> 9016

cccacgcgtc cgccttgttc ctccaacaag ggtgataatt attacatcan ttaggtgagt 60
tccatttggg tgcaaaaaac atcaattcac aacaactaca acaacttatg ctatcaaacc 120
ttgctgcata ctctcaacaa catcaatttc tttcattcaa ccaactggct gcattgaact 180
ctactgctta tttgtaacaa caattaccat tcatccatct agttgttgac taccacacgc 240

aatttcttac attcaaccaa ctatcaacat tgaactctgc tgcttattta cagcagcatc 300
aactactacc attcatccat ctagctgatg ttagccctgc ttccttcttg acacaacaac 360

<210> 9017
<211> 303
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-E1

<400> 9017

ggattcccg tgcaccagcc tggggaacc ttcggcaaaa ggcccctatt ggaagctcgg 60
gtcttaagaa aagtggggag gagattaaac cggtcacccg tcttcatttc cctaaagggt 120

attaaggcac ctttctattc tgggttgccc ttaactacct gtgaattggg accagtgggt 180
acctcttggg gttctgtggt cccgcgatgt tgcagttggt tgcttgatcg aaagatgttt 240
cagcctccca tctgctagct atgatacaga tggttcctga taataatgat gacatattct 300
gtg 303

<210> 9018
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-E10

<400> 9018

cccacgcgtc cgcttgaaga gaagtaaaaa gcgcagagtg tcatttagag atcaggctgg 60
agggtgaactt acccaagtgg ttgggatttc agatggtgca gatgttgaaa ctgaaccggg 120
ccctataggt gtaaaggaag gcagtcttgt tgggaagtat gaatctcttg ttcaggttac 180
tgtcataccg aagggaagg agcaagcatc acggaagag aaagacttta cctctacctc 240
accaagtggg gtaacggata agctacaaga ggtgcttaaa agagtaaaga gcacgaccag 300
gcctggaatt tacgacgacc tttatgggga ttctattgcy aaaaagtgg gctcatcttg 360
ggcgtaaaa tcagatgatc tgtcagacaa agcccagcct gttgaggaga agacacttgg 420
catggattca aac 433

<210> 9019
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-E11

<400> 9019

cccacgcgtc cgcccacgcg tccggttgta tcagcttgga ctagtaacag gcagcagtaa 60
atccccctgaa gaatacaaga taaatgatgt atcaacagat attcttttat gtatttccag 120
catacctgac atcaaaattt caagtttggtc agatgaagaa tacgaagagg aagaatgtca 180
agaccttcgg ctgctggcca agaatgaatc ctttaaaagg cctactgttg gggatctaga 240
ggagaaagca agaagtttac gtagggagat agtgaatcat tggatcagta aagaactcca 300
gaggctagaa agattaattg acagggcgag tgagaaaggt tggcgcaagg aaaagtttga 360
ataccttgat aagaaacaac tcttgcgcaa gccatctgaa caacaacgtt tacttg 416

<210> 9020
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-E12

<400> 9020

gcagcttgga gcaaattctt agagtatatg gcaatcaggc tgtagttgtc agtatggatc 60
ctcgacgggt atatgtcaaa agtcaagaag atgtgccatt taaaactgta aaggtgtcca 120
ctaaagggtc atcgggagaa gaatatgcat ggtaccagtg cacagtgaat ggtggacgtg 180
atagccgagc tataggagca tatgaactag cgaaagctgt ggaagaattg ggcgcaggag 240
aaatacttct taactgcatt gattgtgatg gccaaaggtt tggatttgac atagatttgg 300
ttaaaatggg ttctgatgct gtgacaatcc ctgtcattgc gagcagtggg gctggagctg 360
ttcaacattt ttctgaaatt ttgagaaaa caaatgcttc tgctgccctt gctgctggca 420
ttt 423

<210> 9021
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-E3

<400> 9021

cggggaccct tggccatccg gaaacccaaa agtcccgcg cttccgcttc ctcaacgttt 60
tggacgaaga agccattccg aacccccttc aaggccttaa cgggcaagaa cctgaacggc 120
cgcaccatca ccgtcaacaa ggccaatccc cgcggcggcc gtggaggcgg cggcgggtgg 180
tacggtggtg gccgtggagg cggcggctac tgcggtggcg gtcgccgtga tggcgggtggc 240
ggctacggcg gtggcggcgg ctacggtggc ggcggcggct acggtggtgg tggcggcggc 300
tacggcgggtg gcaaccgtgg cggcggctac ggcaactccg acgggaactg gaggaactga 360
tcggtggggc ccgcgcggcc aagttatcct gtccgctacc gtgatgttta ccct 414

<210> 9022

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-E4

<400> 9022

gggaagaaag aggcattggc ggtttttgaa gagatgcttg atgctggagt caggcggaca 60
cgcaaatcat ataacatttt gcttgatgca tttgcaatat ctggattagt agaggaggct 120
aatacagttt tcaaggcaat gagaagacac agggttgagc ctgaccttg ctcttataca 180
actatggtct tagcttatgt aaatgcatct gaaatgaatg gagctgagaa attctttcgt 240
aggattaaag aggatggtct gaagcccaac gttgtggttt atggcactct gatgaaaggc 300
tattcaaagt taaataatct tgagaaagtt atgcctgtgt a 341

<210> 9023

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-E5

<400> 9023

ggcaaaactt gctccagat atttgaggag gctggttgac acacaccagg gagtgctaata 60
tgtggtgctt gtttgggtgg ccctcgtgat acatatgcac ggatgaatga acctaactgtc 120

tgcgtgtcca ccacgaacag gaactttccg ggcaggatgg ggcacaagga agggcaaatac 180
 tacctggcgt ctccctacac tgcggctgcc tcagccctga cggggtacgt tacggacca 240
 agggacttcc tcatgtaacg tcttgaaaca acaacagatt tcatgatgta acagagtggc 300
 tgtactgctg tttttcgtgc tgaacttttg tctaggcatg tccttcgttg agaaataaac 360
 tgcactagaa taagcagcga cttctcgggc gccatagcag atgtg 405

<210> 9024
 <211> 366
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-053-Q1-K1-D3

<400> 9024
 gagccaccta tccgtggtga accctgtcac ctacttgcaa cagcagctgc ttgcagtcaa 60
 gccaatgtct ctggcgaacg taactgcata ccaacaacaa caacagctgc aacagtttat 120
 gccaatgctc aatcaactag ccatgggtgaa ccctggcgct taactaacia taccttcatt 180
 taaccccgct ccggtgggca atgcaactaa ctacctacca caacagttgc tgcaacaaat 240
 tgtaccaact ctgactcagc tagctgtggc aaacctgct gcctacttac aacagttgct 300
 tccattcaac caactggctg tgtcaaaactc tgctgcgtac ctacaacagc gacaacagtt 360
 acttaa 366

<210> 9025
 <211> 109
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-053-Q1-K1-B8

<400> 9025
 ctttccctc ctcgcttcgc ttctctgcgg attcctcctc cttcgccggg ccgggtccct 60
 ttttccgcgc cccaacctgg cccaaaatgc caaccccaaa accggttgc 109

<210> 9026
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-B9

<400> 9026

ggtgggttgg cttctcctcc cctccggtt cgggttcggg ttcgtgaggt tctgcggggt 60
tcgggttcgt gggtgagcgg atcgagatgg cggcgtcgga tggtgagtag cgctgcttcg 120
tcggcggcct cgcctgggcc acggacgacc actccctcca caacgccttc agcacctacg 180
gcgaggtcct cgagtccaag atcatcctcg atcgggagac gcagaggtcc cgcggcttcg 240
gcttcgtcac cttctccacg gaggaggcga tgcggaacgc catcgagggc atgaacggca 300
aggagctgga cggccgcaac atcacgtca acgaggccca gtcccggggc ggccgtggag 360
gcggcggcgg tgggtacggt ggtggccgtg gaagcggcgg cta 403

<210> 9027

<211> 376

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-053-Q1-K1-C1

<400> 9027

cggacgcgtg gccggaccct tggccagtgg atcatggggg attcaaaaac ggagaaccag 60
tggtacttgc cagggaggtc tttggcccg tgaaccctat aacaaatctt caaaatggtg 120
ggaatggttt tgatatcggt gagatgctta aggatgatgg aaagcgatcc acataatgca 180
ngtggagccg acgctggcat gggacagccc tggtatcttg atgagctgga ttcgagtgtc 240
ttagagagca tgctccagcc ggagccggag ccagagccag agccattcct gatgtctgaa 300
gaaccggaca tgtttcttgc tggcttcgaa agcgtcggtt tcgtcgaggg tcttgagcgg 360
ctaaactgaa tttctg 376

<210> 9028

<211> 400

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-053-Q1-K1-C10

<400> 9028

ccttgatggc agtgccatgt ggatctcagg agatcactat cttgcctcaa cagggaggag 60
aaccttgtgt gttgcctcaa cagggaaaag aaccgtctgt gttgcctcaa ccgggaaaag 120
aaccgtctgt gttgcctcaa cagggaaaag aaccttctat gttgcctcaa cagggaaaag 180
aaccttctgt gttgcctcaa ctgggaaaag aaccttctga gttgcctcag cagggaaaag 240
aatcttcagg agatatctct gtgaatcaga aggaccctct taaggagatg aatggctttc 300
ctgaacagga aaaaggactt gttgctggag aacttgtctc tgcacatcat aaggaccctc 360
taatggatat tacagatgca tttgaaatga ntaaaaaaca 400

<210> 9029

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-C11

<400> 9029

cccacgcgtc cgccacgcg ttttcttagc gtccgcggac gcgtgggaaa agaaagaata 60
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaggccgcac tttttaaaaa ttcaaagt 180
acttaccat aattgcaact ttataacttt tttatagttt aaccaaattt aaattcattg 240
accatatttt taaaacgtca ttattggaaa aaccttgtct ttaccaaatt aaatctcttt 300
tcaaaaaatc ctcttttttc aattttactt attaccctaa atgcccaaac tcattacctt 360
ttc 363

<210> 9030

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-C12

<400> 9030

gcaaggctca gggagatccg aagctatttg gatcttgtaa ttgaaggga gctcccgact 60
gaatcatgag attttgtatc atttgcagga tgtctttaat ctctttccaa atctgaacgt 120
aaatgagcta attaaagcct ttgcagtga aacaaacgac atgatgttgg taatatatct 180

gtcttctctg atccggagtg tcattgcgct tcacaatttg atcaacaata agatgctaaa 240
caaggagcat gagaaggctg aggattcgaa accagccgcc attccaactg ctgccggtgg 300
agggggagct aaatgaactt ttgatcactt attgatggcc aagaaaaagg aggaaacgtg 360
attgcatgtt tatcacggtt gtgctggaac caaatcgcct tgaccttgaa tggatatttt 420
catggttact tcacgta 437

<210> 9031
<211> 282
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-053-Q1-K1-C3

<400> 9031
tgaagcagcc gcagtgcac ccgctggcgg cggcgcccta ctacgccggg tgtgggcagc 60
cgagcgccat gttccagccg ctccggcaac agtgctgcca gcagcagatg aggatgatgg 120
acgtgcagtc cgtcgcgcag cagctgcaga tgatgatgca gcttgagcgt gccgctgccg 180
ccagcagcag cctgtacgag ccagctctga tgcagcagca gcagcagctg ctggcagccc 240
agggctctcaa ccccatggcc atgatgatgg cgcagaacat gc 282

<210> 9032
<211> 348
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-053-Q1-K1-C4

<400> 9032
ggcgaatggt taagcttgag acaagatatt tttgatctgt cgaagctcga catggggaatg 60
ccagataaga tgattgtcgt ttcacggttg aagtggatgt ataactgctt gttccattc 120
tcacgcagcc gtttgccacg cctctagagc agtgagcaac tgaacgtcgt gtgttgcat 180
ttggataaag attttgacac ggatacctgg aactctggaa ggtttattgg ttctctatgt 240
cggaaggatg gttctttcat gccacaaga tgttctgtag attttagcag agctggatga 300
agcatatcgg aagggggcag attgggtgga tgcagtatcc accgagcc 348

<210> 9033
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-C5

<400> 9033

agggaatcac atcgccatgg cagccaagat gtttgcattg tttgcgctcg tagcgctttg 60
tgcaaccgcc actagtgcta cccatatccc agggcacttg tcaccactac tgatgccatt 120
ggctaccatg aacccatgga tgcagtactg catgaagcaa caggggggttg ccaacttgct 180
agcgtggccg accctgatgc tgcagcaact gttggcctca ccgcttcagc cgtgccagat 240
gccaatgatg atgccaggta tgatgccacc gatgacaatg atgccgatgc cgaatatgat 300
gcatcgatg atggtgccga ctatgatgtc accaataacg atagctagta tgatgccacc 360
gatgatgatg ccaaacatgg tttcaccaat gatgatgccg agtatgatgc ct 412

<210> 9034
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-C7

<400> 9034

attttgagca ttcagaaact caccatgcga agcgcactag ctacaaccta acagcgaatg 60
gctaccaaga tattatccct ccttgcgctt cttgcgcttt ttgcgagcgc atcaaagcg 120
tccattattc cacaatgctc acttgctcct agttccatta ttccacagtt cctcccacca 180
gttacttcaa tggccttoga acaccagct gtgcaagcct ataggctaca acaagcgatt 240
gcggcgagcg tcttacaaca accaattgcc caattgcaac aacaatcctt ggcacatcta 300
acaatacaaa ccacgcaac tcacagcaa caacagttcc taccagcact gatccaccta 360
gccatggtga accctgtctc ctacttgcaa cagcagctgc ttgcatccaa ccc 413

<210> 9035
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-C8

<400> 9035

ggagaaggaa gggtaggagg ccagcccac cagccagcca tagtccttgg tctggcaacc 60
ccaggttgct tctctcccct accattcagt tgctgccccg attgagccac cgccgcctca 120
gattcatcgt cgtcgccgac gatttggatg ctaccgcca cgattcggat gtcgccgccc 180
tggatttggc ctccgccacc ctggatttgg cctccgcccgc tcccgattcg gcgctgccaa 240
ccccgaaatg gcgcccgcctt tcccccttcc cttcccccta tgatcatctt ttgattctta 300
cctaggcggc ggggacgcct tggatctttc gggcgtctga acgcctaggt gacgccttta 360
aaacaggggg gaatttggtc ccacatatta ctgcagtca aagatcgaca acttagtt 418

<210> 9036

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-D1

<400> 9036

cccacgcgtt ccgccaggcg ctcccttgac atttaaaggg ccaactacct caacttggat 60
tggcttgtgt ctcaagggat ctcatcggtt actggttctt tgaaggtcga tggcgccctc 120
aatggggatg tgaacgaatt ccaaaccaac ctggttcctt aaccgaagat ccacttcatg 180
cctctctct acgcaccggt gatctcttct gcgaaagcct tccacgagca gctgtctgtg 240
gcggagatca ccagcagcgc gttcgagccg gtttccatga tgggtcaaag cgaccacagg 300
cacggcaagt acatggcttg ctgcctgatg taccgcgccg acgtggtgcc caaggacgtg 360
aacgccgcgg tggccaccat caagacgaat cgcaccatcc agttcgtgga ctggt 415

<210> 9037

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-D11

<400> 9037

cccacgcgtc cgggagggct ctctgccttg atactggtaa ctactcatgg ggaagggaag 60
ctgttaccgc caagaccggt atcctcgacg tggctctaaa tgcataaac aatgagcttg 120

tgaggacaca aacccttgtg aagagtgcc ttgtgcaagt tgatgctgcc ccattcaagc 180
 agtggtagct cactcactat ggagttgaca ttggtaggaa gaagaaaacc cctgctgcaa 240
 agaaggataa tgctgaggga caagagggtt aggagcagc tgaggaaacg aaaaagagca 300
 accatgtcac gaggaagctt gagaagcgca aggagggacg tacccttgac ccacacattg 360
 aggagcaatt tggcagtggg cggttgctgg catgcatttc t 401

<210> 9038
 <211> 413
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-053-Q1-K1-B7

<400> 9038
 agcaaccaac aagtcgtcca acgtccaggc ttttctgttt tgtttctcgg tcacgcaagt 60
 cgcaaagcaa agcgtccccc accatggctt ccacgacgac gacggcatcc aacaacctgg 120
 cgggcgtgtg gctcggcgag ctctcgtcgg cgctgcatgg gacgtggcag gcggtggccg 180
 tggccgccac ccacgggctc ggcgaggacg acgaccgcg gctgccgtgc cagcagcagc 240
 agaggccgtg gcgaggcgac gacaggagca gcagcaacaa caaggcggtt cgaggagccg 300
 cggcggccgg gacggacagg cgggaggggg acgtcgcgag gtgcggcggc gccatgtccg 360
 acaccacgct ctacctnctn ctcgaccggt tcgcgccag ctgagcgggc ccc 413

<210> 9039
 <211> 424
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-053-Q1-K1-D12

<400> 9039
 cccacgcgtc cgcgatccag ccagctgcaa aggactcggc tgtggtcctc tcgactggca 60
 agaccaagaa gcagaacgca cctgcgaagc tcagccacaa gtctgtgatg cgcaaggagt 120
 tccgcaagat ggccaaggct gtgaaaaacc aggttagtga caactactac aggctgatc 180
 tgaccaagcc agctcttgct aggctaagct cgggtgtaccg cagcctccag gttgccaagt 240

ccggtgtcaa gaagaagaac aggcagtcct aagcgctaag tttgtgttct gtcagggggc 300
atgttggtgc tcgtagtccc agcttatatt tatctatggt ccaacagttg agacttgta 360
gaactgagca aaccatgtta agatgctgct gtgtgtcatt ccttaaaaaa attgccttgc 420
actt 424

<210> 9040
<211> 296
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-053-Q1-K1-D2
<400> 9040

cggacgcgtg ttctggaccc gttggcctga cccttggcc ccaatttgcc ccaaaagggc 60

cttcaaaagg cctcaccgg ggaaataaat gccttcttct tttaccacaa ccaccgccgc 120
ctaatectcg aaccgccgtc ctgtctccgt gctcgcggct gccagcgcca ggcgccgtac 180
cttctgcgtg ccgggggtgg ccattcccgca caaccgctc ccgagctgcc gctggtacgt 240
gaccagccgg acctgcggca tcgggccggc ctttccgtgg ccgagctga agagga 296

<210> 9041
<211> 419
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3059-053-Q1-K1-A2
<400> 9041

gccacgcgtc cgctgggagc tcgcctgttg ggtctgtgcc caaatcttct ccacagtctc 60
agcatcttaa cttttcaatc ttttagaaaa aaataaactc cagccgcaaa ggtacaataa 120
gttcaaakat cactgcctta tggagcgtaa gaaattaggc actggccaga gtgagcaaat 180
gaactcactg tatcgcttct ggtcatacta tctgagagat aattntaatg aagatatata 240
caaggatttt aagaaactcg cactggagga tgctgcagcg agctacagat atgggtctcga 300
gtgtctattc agattttata gttatggttt ggagaanaaa ttccaacca atgtatatga 360
agatttcgag aaacttaact tcgaattcta ccgtaatggt gatctttatg gactcgaaa 419

<210> 9042
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-A3

<400> 9042

acggcgagcc ctggcatctt gaagccagac gtcattgggc cggcggtcaa cgtcgttgcg 60
gcagtggccg ttcaaggteg ggccaacaac aaacaccgcc ggccgtgacc gtgacgacta 120
cgaccaacat ggagcagcag cagctacttt caactccgta tctggaacat ccatgtctgc 180
acctcacctc agcggcatcg cagctgtcat caagagcgca caccctgact ggtcgccggc 240
ggtgatcaag tcggcgatca tgacgacggc ctatgtcgtg tatggtaaca aaaaaacca 300
gccgatctta gacgagcagc tcagtccggc gagccatttc aacgttgggg cgggacatgt 360
caacccttcg caggctgtga gcccaggcct ggtgta 396

<210> 9043
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-A4

<400> 9043

agcaacttac ctttatcacc cctgttcttt caacaatcgc cagccctatc tttggtgcag 60
tgattggtac aaaccatcat ggcacaacag ctgcagcaac tcgtgctacc agtgatcagc 120
caagtagctc tggcaaacct ttctccctac tctcagcaac aacaatttct tccattcaac 180
caactgtcta cactgaaccc tgctgcttat ttgcagcaac aacaactact accattcagc 240
cagctagcta ctgcctactc tcagcagcaa caatttcttc catttaacca attcgccgca 300
ctgaaccctt ctgctaattt ccagcagcaa atactactac catttggcca gctagctaca 360
acaagccccg cttccttctt gacacatcaa ca 392

<210> 9044
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-A5

<400> 9044

ctagcaacat agaaagcaca atagtgtacc aacaatggca gccaaaatgg ttggttcct 60
tatgtctcctt ggtctttctg caagtgtgc taccgcaacc attttccac aatgtcaca 120
agctcctata gcttcctttc ttccccata cctctcacca gcggtgtctt cagtatgta 180
aaaccaatt cttcaaccct acaggatcca acaggcaatc gcagcaggca tcttaccttt 240
atcacccttg ttctccaac aaccgtcagc cctattacag cagttacctt tgggtgcattt 300
gttggcaca aacatcaagg cacaacaact acaacaactt gtgctaggaa accttgctgc 360
ctactctcag caacagcagt ttcttcatt caaccaactg gc 402

<210> 9045

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-A6

<400> 9045

aaaaaaaaa aaaaaaaaaa aaaaattaaa aaaaaaaaaa aaaaaataa ggcaaggata 60
caaaatacta aaaaatacta aaaaaaaaaa aaaaaaacta ataactaac ataaattcac 120
tacatttgat tactgtttaa accttgctta tcaactgact cttatccta caaaccacca 180
aatttcaatc taccttaata ttacattaat agcatctcag gctaacaccg ttgcggactt 240
gccaacctt gctcacctg aattacattt gctacactcc atttaccttt gcatca 296

<210> 9046

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-A7

<400> 9046

gtccagaaca agaactcgtc ctacttcgtg gagtggatcc ccaacaacgg caaggccagc 60
gtgtgcgaca tcccgccag gggcctgtcc atggcgcca ccttcacgg caactcgacc 120
tccatccagg agatgttccg gagggtagc gagcagttca ctgccatgtt caggaggaag 180
gctttcttgc actggtacac gggcgagggc atggacgaga tggagttcac cgaggccgag 240

agcaacatga acgacctcgt gtcggagtac cagcagtacc aggacgcgac tgccgacgag 300
gaggagtacg aggacgagga ggaggtgcag gccgatgaca tgtgagggga gggctgttat 360
cgtgtgaagc cttgtggtcc tagggcaagc ggacctcgat gagttc 406

<210> 9047
<211> 418
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3059-053-Q1-K1-A8
<400> 9047

ccacaggggtg tcccggccct ctctagtttc taccgccggc cccaacattg gccggatgct 60

gctgccatgt agcccagcgc tccccctcgt gtttcaccgg cggcggcggc aacgacgggtg 120
aaaactacat cgggtgctag ctccgacggg ggtgcgtgcc ctgttgacga tagggcacgc 180
ggggcgcggg cagcttgtaa gcgttcgatc ggccatgtag ggcaactata catctttggc 240
aggtctccaa ctctccatca tcctccgtgg gagagaagat ggtaatggag tgcgtgtgta 300
tgtatgtgta tgcccagggc gcgcgcgcgc ggctctgggc ggtcacagt agagatgcaa 360
tatcatgtat ccagtatctt tcttacaaca canacagtga gaaattatta gtagaaaa 418

<210> 9048
<211> 134
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3059-053-Q1-K1-B1
<400> 9048

gtagtctgaa tgtcactact gttctgtttg catagttaca ggaanattta aaaagggtttt 60
aataatgcaa acagaacaaa atttaaaaat aaactaaata taaaaaaact aaaaatacta 120
aaaaacataa ataa 134

<210> 9049
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-B10

<400> 9049

cgctctcgc gcctcctacc aggagggtgg gagaccagg cagcggaggt gtgcgagagc 60
tcgtctcgca ccacgcgctg cggcctgcgg ggcgagagat cgaggcctga gctagggtct 120
gggtggcggag atgtcgacgc cggcgaggaa ggcctgatg cgggacttca agcgccttca 180
gcaggaccgg cccgccggca tcagcggcgc gccgtacgac aacaatatca tgctctggaa 240
cgccgtcata ttccggccgg atgacacgcc gtgggatgga ggcacgttca agctgactct 300
gcaatttaca gaagattacc ccaacaaacc tccaactggt cggtttggtt cgaggatggt 360
tcacccaaac atctatgcgg atggaagcat ctgtttggac atctctacaa accagtggag 420
ccctatatat ga 432

<210> 9050

<211> 164

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-B11

<400> 9050

ggaataaagc acaccatagc agatctatgt tgcattgttt ctagtcttca agggcagtta 60
tttacttctc tatgatttct acacacggcc taataatctt gctaaggccc tgattgaatg 120
gaaaatattt tttgggagtt ttaggaaaat actacatttt tgtg 164

<210> 9051

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-B12

<400> 9051

gggttggtt ctcctcccc tccggttcgg gttcgggttc gtgaggttct ccgggggtcg 60
gtttcgtggg tgagcggatc gagatggcgg cgtcggatgt tgagtaccgc tgcttcgtcg 120
gcggcctcgc ctgggccacg gacgaccact ccctccacaa cgccttcagc acctacggcg 180
aggctctcga gtccaaggtc cgttcccgtc ccagatccgt ccattggctt gtccagatct 240

gacctgtcct gacacaccct cgcccggatc tgtccctcct tcccttctcc cctgcagatc 300
 atcctcgatc gggagacgca gaggtcccgc ggcttcggct tcgtcacctt ctccacggag 360
 gaagcgatgc ggaacgccat 380

<210> 9052
 <211> 393
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-053-Q1-K1-B2
 <400> 9052

ggtggagccg ctggaaccgg taccagtcg gaccttcggt tgtgggtccc tggaagtccc 60
 ttcgtgcaag ccaacaaccg caaggccgaa gcctcgccgg cgcttattgc cgcccaagta 120
 gcgcaacaac tgacggcgat gtgcggctctg gaactgcagc aaccaagtcc ctggccttgc 180
 aacgcaactg ccggcggtgt ctactactga agaaactatg tactgtagta ataattgta 240
 ggagccgctg actagctacc tatagctagt tcactcgttt agcggcgatg agtaacggag 300
 tgtcacccat caccatgggt ggcaatgtga gcaatgacct gaatgaacca ttgaaatgga 360
 aaggaataat atatatggaa aaaggatggt tgg 393

<210> 9053
 <211> 184
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-053-Q1-K1-B4
 <400> 9053

ttatctttgc tgctgaagcc attttctctg cctagatttt ctcattatta tttgaggtgg 60
 ggggtggacgt ggacgtggaa ctatggaagt tatcacagcg gagttttgct tagaaacttt 120
 gtcattgcttt aagtctgaga caattttatg aacattccta ggtacaatcg aagttaccag 180
 tgcc 184

<210> 9054
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-B5

<400> 9054

caacaagcaa catagaaagt ggaatacagt agcaacaata gagcaacagt ggcgggccaag 60
atattttcca tccttatgct ccttgctctt tctgcatgtg ttgctaacgc gaccattttt 120
cctcaatact cacaagctcc tatagctgcc cttcttcccc cataccttcc atcaatgacc 180
gcttcagtat gtgaaaaccc agcccttcaa ccctacaggc tccaacaagc aatcgcaaca 240
agcaacttac ctttatcacc cctgttcttt caacaatcgc cagccctatc tttggtgcag 300
tcattggtac aaaccatcat ggcacaacag ctgcagcaac tcgtgctacc agtgatcagc 360
caagtagctc tggcaaacct ttctccctac tctcatcatc aacaatttct 410

<210> 9055

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-B6

<400> 9055

ctcacgctgt gcctggctct gtgagttgct atcgcatctg caatgcacat gccctgccac 60
tgcgcggtggc tgtacgcctt gctcggcgct ttctccggcc tgaccaccat gatggccacc 120
atcatgctgt acccctaccc ggagtacctg acgcagccgc tgtgcaaccc gctgtccgcg 180
gcgctctact acgcccgggtg ctaccagccg agcgccatgt tgcacgcgat gcggcaacag 240
ttctggcagc agcacaatgaa gatgatggac atgcagaccg acgcgcagca gctgcagatg 300
atgatgcaga ttgagcgtgc cgttgaccgc agcagtagcc tgtacgagcc agctctgatg 360
caacatctgc tgcagctgct 380

<210> 9056

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-A12

<400> 9056

ggagatgccca aactgacag cagccaaag acggcaagga agataaccgg caagaaggtc 60

aacgacctca ccggcaacga catcttcaag ggggacgtgc cgccagcttc tgcagagaag 120
catctgagca ccgcgaagct gaaggagatc actggaagca acatttttgc agatgggaag 180
gaaccaatcc gcgagcgtgt gggcggaac cgcaagcctc ctggcgggtga gagcagcatc 240
gcgctgattt agcataatcc gggactcagt gtcgaccctc agaggaggat ttccaccagc 300
accaggcagc aggctgttgg atcgtcagtt tgggtgtcttg ttctgatca aggtgcggca 360
gtgaagagcc ccgttttagt cttgatgatg tttattaact gttggtgtgt gcatgtttg 419

<210> 9057
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-G9

<400> 9057

cgcacgcgtc cgatgaggct ctgcattacc cataacttggc ttcacttcat gagatcgagg 60
atgaacctac ctgccctgca cctttcagct ttgattttga gcaaccatcc ttacagaag 120
cgcatataaa agaacttatac tggagggaat ctttagcatt taaccggat cctccctact 180
aatatcaaaa ggatgatgag ttatctgcta gacgcatatg aagatctcta gctccagcgg 240
acgcaagaac ttatgtcagt gtcagtgtgc gttgattatt tacgtgcggg ttgttgggca 300
tgcgggcatg ggttgggtgct gcaatagcaa ctctattatg gcttgtgaga gcaaacaac 360
gtctgtattc attttcaggt gcctgaacct aggcttgtat tataccgctt gactccataa 420
attattc 427

<210> 9058
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-H1

<400> 9058

cggacgcgtg gggggcatcg agggttacgg cgacatggtc agcggcgtcg tctccggta 60
cccttatttc tgggggaagg agccgctggg cgcggagccc acggatcccg gctaccgcgc 120
aatgttcgat cccacttggg aattcatctg cggcggaag ttcggcctcg accacccta 180

cgtaaccca atggcatcgc cggaggagtg gaggcagctt ggttcccgcc gcgtgctggt 240
gaccacggcg gaccagtgcg ggttcgtgga gagggcaagg gcttacgcag agggaatcaa 300
gaagtgcggc tgggaagggg agctcgagtt ctacgagacc aagggtgagg cgcacgtctt 360
cttcttgccct aaacacggca gcgaaaaagc cgt 393

<210> 9059
<211> 420
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-052-Q1-K1-H11
<400> 9059

cccacgcgtc cgcggacgcg tgggtgctgt tgaagcttat gtgtatgaca tgcgtagcaa 60
gctatatgac aagtacagtg attttgtcac acctgaggac aaggaagggt tgatcggtaa 120
acttcaggag gttgaagact ggctctatga agatggcgag gatgagacca agggagttaa 180
tattgctaaa ctagaagaac ttaaaaagggt tggtgatcct attgaggtgc gcttcaaaga 240
atgggagatt agaggttctg ctgttagcca actgctatac tgcataaaaa gcttcagaga 300
agctgcactg tctaaggacc agaagtttga acacatagac atgtcagaaa agcaaaagggt 360
cattagcgag tgttcggaag cagagacttg gctaattggag aaaaggcagc agcaggatgc 420

<210> 9060
<211> 439
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-052-Q1-K1-H3
<400> 9060

tccggattcc cggtcgacca gctccgggcg agatgttcac ttcaaggcta actgaaaggc 60
tgtaccaggg aatggatggg cgtgtccacc gactacaaag gcaacatgat gctggtcggg 120
gactaccctt ggaatgagtt ctgcagcatg gtgcacaaga tcttcgtgta cagcaggagg 180
gaggtccagc gcatgaacct gggcgccctg aactcgaggc cggaggacag cggcctcgcc 240
aattcgacgg agaggggctc cgcacttact gctgctgcta gagaagcacc cggctaccag 300
tccgtctcgt cgcttaactt cgacaactgc tgatgccttg gcagctaact tgctctccca 360

agtagtagaa gaccaggcat atgtatccat agatctcctt gtagcggaac ctaatgcctt 420
 tttttccctt tctaataatg 439

<210> 9061
 <211> 427
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-052-Q1-K1-H5

<400> 9061

gcaaagaac acatcgtgct tgtgcccgtg cttctcttct gtcacttcag ggccgggtac 60
 cagatctttt gtggattggt ctttctgaga ccaatgcccg gcggtatttt gtggaacaat 120
 ctaggttcca ggaagctctt attgttgctg aagcatataa cataaatcaa cctatagaat 180
 gggccccagt cttttggaat caaatgctaa aaccggatct aatcgagcaa ttcgtggctg 240
 agtttgcttc agtgctgccc ctgcagccac caatgcttct cgagcttgca aggttttaca 300
 gggcggaggt tgcagccagg ggggagcagt cacacttctc tgtctggctt tcacctggag 360
 gcttgccctgc agagtgggtg aaacatcttg gtagatcctt cangagcctg ctgcgtagaa 420
 caaggga 427

<210> 9062
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-H6

<400> 9062

gcaagtatcc aggacaagga tggcattcca ccggaccagc agcgccctgat gtttggtggc 60
 aagcatctgg aggatggccg taccctcgcc gactacaaca tccagaagga gagcaccctc 120
 cacctggtgc tccgcttgcg aggtggtatg cagatctttg tgaagacctt gactggcaag 180
 accataaacc tggaggttga gagctccgac accatcgaca acgtgaaggc gaagatccag 240
 gacaaagagg gcatcccccc agaccagcag cgtctgatct tcgccggcaa gcagctggag 300
 gatggccgca ccctatcaga ctacaacatc cagaaggaga gcactctcca cctgggtgctc 360

cgcccttcgcg gtggtcagta agccatgggt catttaagct gctgctgtac ctgggtatct 420
g 421

<210> 9063
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-H8

<400> 9063

tgaccttagt ttacattgtc tttgtggtgc tgcacacagt gcctgtcctg tatgagaagt 60
acgaggatca gattgactcg tatggcgaga aggggtgggc tgaaattaag aagcagtatg 120
ccgtgttcga tgagaagggt ctgagcaaag taccagggg tcctgcgaaa gacaagaagc 180
actagatgca agtgattcga ggtccctgtt agtagggaat gctagcaaaa ccggttcgag 240
tttctccgga ggggcagcac ttgtgggtgt gagcaccagt ttgccacctg tgcattacgt 300
tgcgatggc tgcttagttg tttggtcttg atgggagtaa gccgaattgc tagctttgcg 360
cttcatcagt gatgcagacg cagcatacga atttctgtag tgctgtttga gtttg 415

<210> 9064
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-H9

<400> 9064

gccggtccc gcggggtccc gcggcgtcc tgcgcacgt accgaggacg acgacgggga 60
ggagggcgag atcgccaccg acgccccctc gcccgccctc cccgccgcgc acccgctcga 120
gcactcgtgg accttctggt tcgacaacct gcacggcaag aacaagatgg ccgctgggg 180
gagctccata cgacccatcc acaccttctc caccgtagag gacttctggg gcctctacaa 240
taatatccat caccctagca agttgatcgg cggagctgac ttccattgct tcaagaacaa 300
gattgagcca aaatgggaag atcctatttg tgctaattggc ggtaaatgga ccatcagctg 360
tggaagagga aaatctgaca cgctttgggt gcacaccctg ttggctatga t 411

<210> 9065

<211> 402
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-053-Q1-K1-A1

<400> 9065

ggcgccgccc tccgcgatat gcaggccaag gtcgccaagg agatgcaagg aggtggccct 60
agtgcaccta cagctgaggc aaaggagcag gtggatgccc gttctgtgta tgttggaat 120
gtggattatg cttgcacccc agaagaagtg caacagcatt tccaagcttg tggaactgtc 180
aacagggtca caatcttgac tgacaagttt ggacagccaa aaggttttgc ttatgttgaa 240
tttctggaac aggaaagtgt tcaagaagct cttaacttga atgaatctga attgcatggt 300
cgccagaatt aaagtcgcg ccaagaggac taatgttcct gggatgaagc agcgtncacc 360
acgtggatta tatccatacc atggctaccc ttatagatca ta 402

<210> 9066
<211> 303
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-A10

<400> 9066

cgcaactcgtt cgcccacgcg tccgattata aaactccttc cgtgtgtaac cagagctgct 60
agcatcggtg gaacctcggt ctcgtttagt tcgtaaagct gagtccaatt ctttgagtaa 120
cctgagtcct gagctagggt ttcagtcgtt tctaactaac agttctttgg cgacgtacgt 180
acgtacagct cggagaccga cagaagcgag cgatggcgtg caagactaag agcctgctgt 240
tgacgtcttg cgtggcgggc ctgctcgcg cgcatctcaa gtcccaccgc ctaggctact 300
tca 303

<210> 9067
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-G6

<400> 9067

cccacgcgtc cgcgacgcg tgggcctatt gaggtgcgct tcaaagaatg ggagagtaga 60
 ggttctgctg ttagccaact gctatactgc ataaaaagct tcagagaagc tgcactgtct 120
 aaggaccaga agtttgaaca catagacatg tcagaaaagc aaaagggtcat tagcgagtgt 180
 tcggaagcag agacttggct aatggagaaa aggcagcagc aggatgctct gccaaagcat 240
 gctaattccgg tctccttgc tgctgacctt aagaagaaag ctgaaacact tgacaggttc 300
 tgcaagccga tcatgacgaa accgaagcca gttcctaagc cacagactcc gcctccggca 360
 gaaaccaag ctctgagcc tcagacaccg gagcagcagc gatcaaat 408

<210> 9068

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-F12

<400> 9068

acaagatcga cgagcggctg cgcgccgtgc tgggtggaaa ggtgggcggc cccggggagg 60
 ggtacgagga gctcgtggcc gcgctgcccg gcgacgactg ccgctacgcc gtcttcgact 120
 tcgacttcgt caccgtcgac aactgccaga agagcaagat cttcttcacg gcctggtcac 180
 cggcggcgctc gaggatcagg gccaaagatcc tgtacgcgac atcgaagcaa ggctgcggc 240
 ggctgctgga cgggggtccac tacgaggtgc aggccaccga cccctccgag atgggcttcg 300
 acgtcatcag aggccgcgcg caatgaggcc cccgctgcgc tctgctccta ttacgtact 360
 tacctgtgcy tgggcgtggt ctctactac tcaactgtca gtagtcagta gtcactgcy 420
 ttcgtgtgtg tgt 433

<210> 9069

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-F2

<400> 9069

cggtcgattg aagaaagtcc aaaagaagcc gatgggaaac cagggtttat aagaatggct 60
 gggtgggcca gaaaccaaag gtcattcaat ggaaaccatg gaaccaggaa ttgggtgaaga 120

agaaccagac cagaaggaag ggcttgggaa ttttcaatta agctggaaaa acttaaaggt 180
 ttaagttata acatgctaaa accaagtga agtgagatag atgcagatat aaaggatggg 240
 ggtatgatgc tgataactgc attgagtcct tatgcaaact ggcttcaagg ctatgctgat 300
 gttctcctgc aggttaaagg cactgttgat cagcctgttg ttgatggatc agcaacgttt 360
 aaccgggcta ttgtgaactc tccttttctt cggacaccat tgacaaattt tgcgggtaca 420
 attcaagtca 430

<210> 9070
 <211> 357
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-F5

<400> 9070
 cctgaattcc ctctgtctacc ctctcttctt aaaaaaaaaa aaaaaaaaaa taaaatttaa 60
 aaaaaaaaaa aaaaaaaaaa aagaaaagct aaaatacaca aacaaacaac caaaaaacct 120
 ctactataac aaacattaat ttcattacac tctcctctct ttctacaact tcctctctta 180
 ctaaattcct ttcttttccc aacttattct cttttctaca ctttcaaact ccttctcttt 240
 ccttacttac tcaacattcc ctcaattacc cctcttccca actttcacac ttcctaaata 300
 tccaactttt cctcctcttt ctacactttt tacccttcca tccctctctt ttcccc 357

<210> 9071
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-F6

<400> 9071
 gttggcttct cctccccctc cggttcgggt tcgggttcgt gaggttcttg gggggtcgg 60
 ttctgtgggtg agcggatcga gatggcggcg tcggatgttg agtaccgctg ctctgtcggc 120
 ggctctgcct gggccacgga cgaccactcc ctccacaacg ccttcagcac ctacggcgag 180
 gtcctcgagt ccaagatcat cctcgatcgg gagacgcaga ggtcccgcgg ctctcggttc 240
 gtcaccttct ccacggagga ggcgatgcgg aacgccatcg agggcatgaa cggcaaggag 300

ctggacggcc gcaacatcac cgtcaacgag gccagtcgc gcggcgccg tggaggcggc 360
ggcgggtgggt acggtggtgg ccgtggaggc ggcggctacg gcggtggcgg gcgccgtga 419

<210> 9072
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-F7

<400> 9072

cggacgcgtg gggcgccgcc gccgctgcag actcctcctt ttcgatccct gcacagagcg 60
cctccgtcgc cccatcgaac atgggtccga agaaggataa ggccccgcc cctcgtcga 120
agccccgcaa gtccggcggg ggcaagcaga agaagaagaa gtggagcaag ggaaagctaa 180
aggagaaggt gaacaacgcg gtgctgttcg accaggctac ctacgacaag ctgctctctg 240
agggtgcccc gtacaagcag atcacccctt ccatcctatc cgagcgctc aggatcaatg 300
gtccctggc tcggagggt atcaaggacc tgatggcgcg tggcctcatc cggttggtct 360
cggttcactc aagccagcag atctacacca gggcaacaaa tacctaagga tgggat 416

<210> 9073
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-F8

<400> 9073

agaagatcaa acacaagctc aagaaggta agctctccgt gctgcagttg tataaggtgg 60
acgacaccac tagcaagggtg acccgctcc gcaaggagtg ccccaacaca gagtgcggcg 120
cgggcgtctt catggccaac cacttcgacc gccactactg cggcaagtgc ggcctcacct 180
atgtctacaa ccagaaggcg taattgcttg ccccgatttg ctttatccgc ctaccctatc 240
gaacatccag ctgttggtta ctcgaattgt atctcatgta gatctgtctg aggttgaaac 300
ttaaatggag cagtagtatc tgtcatattg gtaccctgt tactgaattg atgtgatgct 360
gagtttaatt ttgttttcaa aaaaattaaa cgcagcggct catcttcgcc ggcaagcaac 420
tcgaggaccg tcgc 434

<210> 9074
<211> 406
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-052-Q1-K1-F9

<400> 9074

agcaatcgca gcaagcaaca tacctttatc gcccttggtg tgtcaacaat cgccaggcct 60
atctttggtg cagtcattgg tacaaccat cagggcacia cagctgcagc aactcgtgct 120
acctgtgatc aaccaagtag ctctggcaaa cttttctccc tactctccgc aacaacaatt 180
tcttccattc aaccaactgt ctacactgaa ccctgctgct tatttgcagc aacaactatt 240
accatttagc cagctagcta ctgcctactc tcaacaacaa caatttcttc catttaacca 300
attggccgca ctgaaccccg ctgcttattt gcagcagcaa atactactac catttagcca 360
gctagctaca gcaagccgtg ctttcttctt gacacaacaa cagttg 406

<210> 9075
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-G1

<400> 9075

atggtcagcg tcgtcttctt cgtgtacgt tatttctaag ggaaggagcc acttggtctt 60
tatccactg atccctgcta cctcgcaatg ttctatccca cttgagaatt catctgctgc 120
tgaaagttct gcctctacca cccctacgtc aaccacatgg catctcctga tgagtggagg 180
cagcttggtt cccgcctcgt gctggtgacc actgctgacc attgctgggt cgtggaaaag 240
gcaaagtctt actcaaaggg aatcaataaa ttcggctggg atggggagct cgaattctac 300
gagaccaagg gtgaagctca cgtcttcttt ttgcctaaac a 341

<210> 9076
<211> 118
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-G10

<400> 9076

ttatataaaa caaccatcct ttacaaaatc tcatatataa taacttatct aaaaataatc 60
tttatcattt aaccacatc ctccctacta atatcaaat tattataatt tatctact 118

<210> 9077

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-G11

<400> 9077

cgacttgctg ccatgaaata tgcatttttag actgatacat tgtcatatct tttatcggtg 60

gtgaaaggta agtatcaaga tggaataaga gtgttatcca tctacagtgg cattggagggt 120

gcagaagtag cacttcatcg tctaggcatc cctttgaaat gtgtgatatc tgttgaggaa 180

tctgagggtga atagaaaaat tctaagaagg tgggtggtga aaactgaaca aactggagta 240

ctaaggcaac atgcaggaat ttggaagctc aaaacacatg tgattgaaga cttggtgaaa 300

gagtttggtg gttatgatct gattatcggt gggaattata cttcttgcaa aggtggtact 360

acagttaata cgacaatggg catggattcg aaccgcttct atgagtat 408

<210> 9078

<211> 278

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-G3

<400> 9078

aacttgaggt actcaaggaa gggcaataag aagagttgtg aggctgagtc agaggagtga 60

gatgatgcct gagtttgtgg cgacaaatgc atctcttgta tcgttagggt cttagttgtg 120

aacttaattt tcacatctgt atgattaaaa gagattcatc aattggtact gaagtgttgt 180

ttttttgtct tgttgccat ctggagttta tttaactaaa atcatcagtt gtgtccttga 240

gaatcgggca cttaatgtat cattttcgggt tctctgtg 278

<210> 9079

<211> 398
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-052-Q1-K1-G4

<400> 9079

ggaagaggca gctctcttct ctgcagctga gccttgttgt cgctaagaag agccgagctg 60
 ctgatgatgc ggccactaga gcagctcgga ctgattgtac tcctacacat gcgcagtatg 120
 actctgaaga tacattatcc accgggactc gtacacctga agtgatcgag tcgaaacacg 180
 acaaccacaa ccctgaagct aaagtttcag caggaaactc ggataggcga gtgaatgctg 240
 tgaaccacct agcaaaggag tttgaagaca gacgacaggt gttcgaagac gatgcgggct 300
 tnctagttgc agtcaggctc ggtcagaatg gttcaaatat gaaccagat gaggaactcc 360
 ggaagctcaa ggaccgcttt gcgacatgga aaaaagac 398

<210> 9080
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-G5

<400> 9080

ctgcagtga gtcgccggcg ccgcctcgac aggaggaagg agcagcagcg ggagcggagg 60
 cccggcgatc tcgtctgctg cgtgcggcga gggagtaacc ggagccgcga caggatgcac 120
 tcctttgggc accgcgcaa cgcggtggca acgttcgcgg tcaccatact ggccgcgatt 180
 tgcttcgccg cctccttctc cgacaacttc aacaccccga caccactgc ctccgttaag 240
 atcttgaatc taaactggtt ccagaaggag gccaacggca acgacgaggt tagcatgacg 300
 ctgaacattt cggccgacct ttcgtctctt ttcacgtgga acacaaaaca ggtgtttgtt 360
 tttgtggcag cagagtatga gactccacag aatgctttga atcaagtttc cctttgggat 420
 ggcattat 428

<210> 9081
 <211> 418
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-052-Q1-K1-F11

<400> 9081

gagataacct tactggaact tctgctagtt ctggatcatga tgaggtttat aacctgcaaa 60
tgctagaagc tgcattccac aagcttccac aaccaaagga ctctgagcgt gctaaaactt 120
acatcccgcg gcaccctgca gttacccttg ctagctatcc ccaagttcag ccatcaattg 180
tatctcatcc ctcttcttgg gaaagaattg gtagcgacac attagctacc gacatgctat 240
tctttgcgtt ctattaccag cagaacacat atcaacaata catggctgct agagaattga 300
agaagcaatc gtggagattt caccggaggt acaatacctg gttccagcgg catgtggagc 360
cacaggttac gactgatgag tatgagcggg gatcatatgt atactttgat ttccatgt 418

<210> 9082
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-D6

<400> 9082

ggcagcagct ctgcctccac tggcttccct ggtatcagct ctgcgttctg gatcggctct 60
gtcagaagcg ctgcgttctc gggcattgct ggcgccagat tggacaacga ctaggagagt 120
gaaaccaagg agaggccact ggtgcttcgt aataagccgc ctaggtggca cgaacagctg 180
cagtgttggt gcctcaactt ccgtggccgt gtgacaattg cctcggtgaa gaacttccag 240
ctgatcgccg cggctacccc gccaccggca ggtgcgcaa cccctctca gcctgccccg 300
tcagatcccc acaaggtgat tctccaattt ggcaaagtgg caagggatat gttcacgatg 360
gactatcgct accctctctc ggctttccaa gcctttgcca tttgtctgag tagctttgat 420
acaaagttaa cctgtg 436

<210> 9083
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-D7

<400> 9083

cggactcgtg ggcgaatatt gtcaagttca ttggtgcgtg caggaagcca ttggtgtggt 60
gtattgtgac ggagtatgcg aagggtggat ctctcaagaa tttcttgagc aagaggcaga 120
acaggtctgt ccgctgaag ttggcagtca agcaggcatt ggatgttgca cgtggcatgg 180
cctatgtcca tggccttggg ttcatcata gagatcttaa gtcggacaac ctctgattt 240
ctggtgataa gtccattaag attgctgact ttggagtggc taggattgaa gtcaagactg 300
aggggatgac acctgaaact ggaacatacc gctggatggc tcctgaaatg atccagcata 360
ggccatacaa ccagaaagtt gatgtctaca gttttgccat tgtcctgtgg gagttagtga 420
ctgggaatgt ccc 433

<210> 9084

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-D8

<400> 9084

aacgagcact cgctgcgct cttctctctc tcgtggcgac gactgggtgg gtgcgggcg 60
cccaggcctg aggtccatc ttcgggccct tcttggtcta cgagcaccac ctgaggatta 120
tggtattggt ggggcagaag cgcgcgga tctgatgca ggtgctgctg gtggcgtctg 180
ctgtggcggc gttcctggtg ggctacgtgc gctcggactt ccagctcatg ctgctcgtct 240
acgccggcgg cgctgtgctc acagcgctcg tcaccgtccc caactggccc ttcttcaacc 300
gtaaccgct taagtggctc gacgctgccg aggcggagcg ccaccgcg cccagggtca 360
gcgccggtgc ggcagcaggg ggaaagaaga agtccgggaa gaacaagtaa tcgac 416

<210> 9085

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-D9

<400> 9085

gggaggaagg aggcgatcct gctgctgaat gcggcgcgga ggagacggag gtggaggggg 60

cggcggcgaa gaagccgaag ttggaggagg ccaaggaggc ggagaagggg agggtagagg 120
agacggcgga ggggaagaca caggaggcaa atgaggagaa ggcagtggag gcggaggaca 180
agcctgtgac agaggaggca aatgagaaga aggcagttga agcggaggga aagcctgtga 240
cacaggaggc aaatgaggag aaggcagcgg aggcggaggg caagcctgtg aagctggggc 300
ctaaagaatt cgctcggcc atcgatatgt tcaactactt ctacgctctg ctccactcct 360
ggacgccgca gcttgagttc aataagtatg aacaaatggg gcttgaggat ttgcttaag 419

<210> 9086
<211> 390
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-052-Q1-K1-E11

<400> 9086

gaaacacacc aagcgaagcg cactagcaac gacctaacaa caatggctac caagatgtta 60
gccctccttg cgcttcttgc cctttttgtg agcgcaacaa atgcgttcac tattccacaa 120
tgctcacttg ctctagtgc cattattcca cagttctccc caccagttac ttcaatgggc 180
ttcgaacacc tagctgtgca agccaacatg caacaacaag cgcttgccgc gagcgtctta 240
caacaaccaa ttgcccaatt gcaacaacaa tccttgccac atctaacaat acaagccatc 300
acaacgcaac agcaacaaca gttcctacca gcaactgagcc acctagccat ggtgaaccct 360
gccgntact tgcaagagca gctgcttgca 390

<210> 9087
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-E12

<400> 9087

cggacgcgtg gggtcgagca acatcttgct tgatggcagt ttcgaggccc gtgtagttag 60
ggtttgact tgcaaagctt ttagaggatg aagaatcaca tattactaca atagttgcag 120
gaacatttgg ctaccttgca ccagagtata tgcaatttgg cagagccacc gagaagactg 180
atgtctacag ttttggggtt ttggtactcg aaatactcag tggaaagcgg cctactgatg 240

catccttcat tgagaaggga ctaaacattg ttggatgggt aaattttctt gctagtgaga 300
accgggagag ggaaattgtc gacctgaact gtgaaggagt gcagactgag accttagatg 360
ctctgctctc tcttgccaag caatgtgtta gctcctcgcc agaggagagg ccgacaatgc 420
acaagggtg 428

<210> 9088
<211> 432
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3059-052-Q1-K1-E2
<400> 9088

gaaactcata aaggttgtct atgagcatca tctcgcacca aaacagggtca tagtagagaa 60
tgacctccct cagaagctac aaaacctgat tgaagaacgc aaggggtggac aacggggcg 120
ccatcaagtg ttggtcaaac aaatggccac ctcattgctg aaagcgctgc acatcaatac 180
agtattgtga ttttgatggg tcatgtgttt tctctcaag ttagtgttta cgttttcgct 240
agaggaagaa aaggggcgtc cttctctttn tgctctcttt tctgctgtgg tgggcttctc 300
acgagcacca gactcatttg ttgtacctga tccctccttt tttgggagaa aggttcaacg 360
ttttggtgca ggataaaatg ggcttgctat cctccagtgc tgtttatatc tagcgatgt 420
tagtgaagaa at 432

<210> 9089
<211> 401
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3059-052-Q1-K1-E4
<400> 9089

gccagccgct tcgcgatcgg ngactcggag aggggaaagg cgagtcgtcg tccgtgcacg 60
gcagcttccc tccctctcct ctccggcccc gcttacctaa cccggcccct cctacgcccc 120
cccttcogcc gtcgcacgat gagcacctct ccggcgggcg tcgtgcaacg cgcttgccac 180
cgcgtacctg ccgtcgtgc tggccccgga ccacgcggtg gtggaggagg acgacgagga 240

gggcgcggac gacgaggacg aggacgaggg ccagcacggg cgcgggcggc tcaggggcag 300
gaggccgtcc acgttcccggt ccccgcggt gatcgcgac gccaccgtcg gccagatggc 360
gagggcccgg tcgtttcggt ccccgaggtc cttctccatg a 401

<210> 9090
<211> 425
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-052-Q1-K1-E6
<400> 9090

agagcttcga ctcatatgtt ctgtccgagt ccagcctctt tgtgtatccg gacaggggtg 60
ttctgaagac ctgtgggacg acgaagctgc tgctcgccat tctcgcac cttgagcttg 120
ctgcagggct gtcactgcct cttctttcag cgaagtactc tcgtgggacc ttcattctcc 180
ccggcgcgca gcccgcgcca caccgcagct tctcggagga ggtatctgtg ctgaacgctt 240
tctttggtaa cctcaagtcc ggtggcaatg cctacctgat cgggtgaaccg ttcaagccca 300
acaagaagtg gcatgtctac tacgccacag aggagcctga gcgtcctatg gtgacgcttg 360
agatgtgcat gacagagctt gacgttaaga aagctgctgt gttcttcaag aactccactg 420
gtggc 425

<210> 9091
<211> 421
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-052-Q1-K1-E7
<400> 9091

cccacgcgtc cgcgagcgcg tggggattgg actccttttt gagctgctgg tcateggacc 60
catgaggggtg cctattgatg agagccctgt cttcctattg tatcaggatt gggctctggg 120
gttaatatcc ttgaaaatat ggactagact ggttatgttg gatcagatgg cacctttggt 180
tgatgaaagc tggaggtcaa agtttgagag agtttagagac gatggcttct cccgtttaa 240
gggtctgtgg gtccctccatg aaattataat gccgatcgtg accaagctcc ttactgctct 300
ctgtgtccca tacgtccttg caaggggcat cttcccggtg ctgggttacc cactcatcgt 360

gaactcagcg gtgtaccggt ttgcctggct tggaagcctg atcttcagcg cactcttctt 420
t 421

<210> 9092
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-E9

<400> 9092

cggggctcgc cgtggccaca gctcatgaat ccaatcccc actcctcacc ggcgccggcg 60
gttttataaa tagattccct cgtaactgtc gcggtcgcgg ctgatcggga ttcaactcac 120
ctaccccacc cctcagattc cttcccagct ctggctaact cctacgccac caccgcccgc 180
tccggcctcg gtcctcgag caagctgcc tggctgccgc cgcgctgagg gagcaactca 240
acgctctect ctctccatg ttgcctcgg gtctgggtga cgagcagttc cagcagctgc 300
agatgctgca ggaagacggg ggcacgccgg gcttcgtcgc cgaggtcgtc accctcttct 360
gcgacgacgc cgacaggatc atctccgagc tcgccgtctt gcttgaccag ccca 414

<210> 9093
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-F10

<400> 9093

ggcacgcgtc cgcccacgcg tccggccggt gatcgccgtg gtgctgaagg tgcacaggcg 60
ctgcgaggcc tgcgcccagg ggatcaggaa gaggatcctc aagatgaaag gcgtgcaatc 120
tgcagagcca gacctcaagg cgtcggaggt ggcagtgaag ggcgtgttcg aggagtccaa 180
gctggcggag tacgtgtaca agcgcaccgg caagcacgcg gccgtcgtca agtccgagcc 240
gggtcccggcg ccaccgccgg agagcggcgc cggcgacaac acggggggcca aggaggagga 300
gaaggggcag gaggaggaga aggagaagga aggaggaggc gatggcggtg gcgaggagaa 360
gaagaaggaa gggggcaagg aggaagagaa gaaggactgc gagaa 405

<210> 9094
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-D5

<400> 9094

ggcagcagcg ctcgcttcac gggcggtcct ggtagcagct ctcgcttcgc gggcggtcct 60
ggcagcagcg ctcgcttctc gggcattgct ggcgccagat tggacaacga cgaggagagt 120
gaaaccaagg agaggccact ggtgcttcgt aataagccgc ctaggtggca cgaacagctg 180
cagtgttggg gcctcaactt ccgtggccgt gtgacaattg cctcggtgaa gaacttcag 240
ctgatcgccg cggctacccc gccaccggca ggtgcgcaa cccctctca gctgccccg 300
tcagatcccc acaaggatgat tctccagttt ggcaaagtgg caagggatat gttcacgatg 360
gactatcgct accctctctc ggctttccag gcctttgcca tttgtctg 408

<210> 9095
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-C1

<400> 9095

cggactcgtg ggcacgtata tggacttgca atcaaggatga actgggcata tgcaagtacg 60
cggagggagg atacgtcagg gcatttccat atttttgttg gtgatttaag ttctgaagtg 120
aatgatgcaa ctctttatgc ctgtttctca gcatatcctt cttgttctga tgctcgagtc 180
atgtgggaca acaaaactgg acgctccagg gggttatggtt ttgtctcctt ccgtaatcaa 240
caggaagctg aaactgctat aactgaaatg actggaaaat ggcttggaag cagacaaata 300
aggtgcaact gggcaacaaa gaacaattcg gaagagaaac cagaaactga caatcataac 360
gcagtcatac taacaaatgg tagcttcaac aat 393

<210> 9096
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-C10

<400> 9096

cgttgccctc gctctcctgg ctctcgctgc gagcgccacc tccacgcata caagcggcgg 60
ctgcgggtgc cagccaccgc cgccggttca tctaccgccc ccggtgcac tgcacactcc 120
ggttcacctg ccacctccgg tgcattctcc accgcccgtc cacctgccgc cgccggtcca 180
cctgccaccg ccggtccatg tgccgccgcc ggttcatctg ccgccgccac catgccacta 240
ccctactcaa ccgccccggc ctcagcctca tcccagcca caccatgcc cgtgccaaaca 300
gccgcatcca agcccgtgcc agctgcaggg aacctgcggc gttggcagca ccccgatcct 360
gggccagtgc gtcgagtttc tgaggcatca gtgcagcccg a 401

<210> 9097

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-C11

<400> 9097

gtggctgcca acaagtcattg ctcatgcaaa ccgatgaatc tatctctgta tcatcgggtct 60
cggttgcttg ctagtccaga ctccagacat ggctatatat atatagctgg tgctaataaa 120
taggagtata atcgatcatat cgatcggttg cgtgtggaat gccaatcatg tgtgtaattct 180
gttggcaaat aacaaacctc tgttctccc tgetgctgtt gtccgtgcga tcatgattca 240
gaactggcgt gggcgccaat aactcagaag agagacttgc tgtatatgca tgctagtatg 300
cattgtccct ctcttgtaa tgcttgtaat cgaactttat tatgaaaacc aaaacgagaa 360
tccaacc 367

<210> 9098

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-C12

<400> 9098

gggagattat gttgaccgtg gttactactc tgtcgaaact gtcacacttt tggtgggttg 60
aaaagttcgt taccctcaga ggatcacat tctcagagga aacctgaaa gccggcagat 120

tactcaagtg tatgggttct atgacgaatg ctttaaggaag tatggaaacg caaatgtctg 180
gaaaaccttt acagatctat ttgattactt ccccttgact gcattgggtcg agtcagaaat 240
atthttgcttg catgggtggat tategccatc cattgagacc ctgcacaaca tccgcaactt 300
tgaccgcgtt caagaagttc ctcacgaagg tccaatgtgt gatcttctgt ggtctgatcc 360
agatgatcgg tgtggttggg 380

<210> 9099
<211> 136
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-052-Q1-K1-C3

<400> 9099
tctcaacact tacacattta accataatct caattcatgc cttacatcaa aacatacctc 60
cctttcatac cttgcttcat ctaattaccc atatttcatt aatcttacac tgcattaact 120
caaatctccg actaac 136

<210> 9100
<211> 347
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-052-Q1-K1-C4

<400> 9100
ttcccgtgct ctaccactc ttctcccccac tcgtcctata aataataaag tccattttcta 60
ggaagccaca aacatcatac gaatagcttt attatttctg tgacgccaca attctgatct 120
cgatcttctt ctcactatct atgttcaccc tottacaact tctacaattt cttccattca 180
accaacttgc ttttacaac ccatcatctt totaccaaca acccatcatt gctgggtgcc 240
tcttttagat ttcttatcac ttatagctca atactaaagc ttcttgtctt atatttactg 300
cttcctatat attatccatt ccatttctaa tcaacttttc tctcaca 347

<210> 9101
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-C6

<400> 9101

actcatccaa aaaaaattta aattaaaaaa aaaaaaaaaa aaaaaaaaga taagatttaa 60
tttcaaacta gccaacccat ccaaactaac aaacacatac atacaacaac ataactactac 120
tataaaacaa ccaaaattca attcactacc catcatttaa caacaacata acaataaaaa 180
accctttcat aacccaacta aatcacctta caccacatcc ccctttctcc aactaaccaa 240
aaaacaaaaa aaccacacacc aatcacctt cccaacaatt acccaaccta aataacaaat 300
aaaacacacc ctaaaactac acataaaacc caac 334

<210> 9102

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-D1

<400> 9102

cggacgcgtg ggcggacgcg tgggtgctga gagtaggcag cagtttcttc cattcgacca 60
gctggctgca ttgaactctg ctgcttattt gcaacaacaa ctaccattca gtcagctagc 120
tgctgcctac cccagcaat ttcttccatt caaccaactg gcagcattga actctgctgc 180
ttatttacia cagcaacaac taccaccatt cagccagcta gctgatgtga gccctattgc 240
cttcttgaca cagcaacagt tgttgccgtt ctacctgcac gctgcgccta acgctggcac 300
cctcttacia ctgcaacaat tgctgccatt caaccaactt gctttgacaa acccaacagc 360
gttctaccaa caacccatca ttg 383

<210> 9103

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-D10

<400> 9103

cgcacgcgtc cgcccacgcg tccggtaaatt tcgcaggaac aattagctta gcctggggcg 60
agaatcgata tgatttatcc taaaagaagg tgtaagatg atgggacatg gctttcaaaa 120

ctttcagctg ttgectgctg gtagccaaga cacactgaat ccgaaggaag gcgttgaagg 180
 gtagctgtta gtgattttgt gatataaaga gtactggggc agttagcatc ggcattttta 240
 gcggatttaa gttcttggtta tgtatatctg tcttctgtct tcatcagtag tgctgcttag 300
 tacctcactc tctcgtcagc aggatatttc tatatattgt ctgtacttgg tagatatatg 360
 tattggttga tcct 374

<210> 9104

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-D12

<400> 9104

cggacgcgtg gggcaaattg caccaagaaa tccatcgaga ggccgtcgac aggggagatt 60
 gatggcgtcg tcgtctagca gcagccaccg ccgcctcatc ctgcgagccg ccgtcctgct 120
 ctccgtgctc gcggctgcca gcgccagcgc cgggacctcc tgctgcccgg ggtggggccat 180
 cccgcacaac ccgtccccga gctgccgctg gtacgtgacc agccggacct gcggcatcgg 240
 gccgcgcctc ccgtggccgg agctgaagag gagatgctgc cgggagctgg cggacatccc 300
 ggcgactgctc cgggtgcacgg cgctgagcat cctcatggac ggcgcgatcc cgccggggccc 360
 ggacgcgcag ctggaggggc gcctagagga cctgccgggc tgcccgcg 408

<210> 9105

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-D4

<400> 9105

agcttgcgca ctaacaccct gtgggtcaac ctcaaagcta tctatacact cgtaggggct 60
 gccgcactta agaggggaaag cttatcaaac ccagtgaggt gtgatgggtgt gaaagtcgct 120
 cgactcctaa ccgaaactgg ttcagctcta cgattgttcg acataacgac tggaactaat 180
 gttactcgat caaggcttct ccagtgaca gctacatgtg atctgtagct cgtgcagcct 240
 gatctttaca ccttgacaga aggcttcgtc attcgctgcc cattctgagc gatcttcagc 300

taacgcttct attgagctag gacctga

327

<210> 9106

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-B9

<400> 9106

agcctgtgga gaagtgcttg cgcgacgcca agatggacaa gagcagcgtg cacgacgtcg 60

tgctcgtcgg tggctccacc cgcaccccca aggtgcagca gctgctgcag gacttcttca 120

acggaaagga attgtgcaag agcatcaacc ccgacgaggc tgtggcgtag ggcgccgctg 180

tccaggctgc catctcagc ggagagggea acgaaaaggt acaagatctg ctctgctcg 240

acgtcacgcc actgtctctc ggctggaga ctgcaggtgg cgtcatgacg gtgctgatcc 300

cgaggaacac caccatcccg accaagaagg agcaggtctt ctccacgtac tccgacaacc 360

agccgggctg cctgatccag gtgtacgagg gtgagcgcgc gaggaccaag gacaac 416

<210> 9107

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-A5

<400> 9107

agcgtcctgc tggtagacgt gctggtggaa tgcagcagcc catgccaatg ggtgggcagc 60

aacagggtgtt ccctagaggt ggtcgtggct atcgctatcc tactggacgt ggaatgcctg 120

atcctggcat gcaagtggtt ggtgctgtga tgccaccttc atatgagatg ggagggatgc 180

caatgagaga agctgcccc caacctgttc caattggggc gctagccact gcacttgcta 240

acgccccacc agatcagcag agacttatgc ttggtgagaa cctgtatcct cttgttgaac 300

agctggaacg tgagcaggct gccaaaggta ctggcatgct tttggagatg gatcagacgg 360

aggttcttca cctgctggag tcgccagatg ctctgaaagc 400

<210> 9108

<211> 421

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-052-Q1-K1-A6

 <400> 9108

 agtttccaag atctagtttc tttcaaacia cccccggcag atgataaaat agctctgatt 60
 gacctaacta ctaacaggga attgccttct cagatggatc tcgacatcac tgatgcagag 120
 acaaaaaggt ctaatgcggt ctggaaaaat cttgagctcg caaccatgaa attgtcccaa 180
 gaactggcag agcaattgcg cctgggttatg gaaccaactc ttgctagtaa gtttcaaggg 240
 gattatagaa ctggaaagag aataaacatg aagaaggta ttccatatat tgcgagtcac 300
 ttccgcaggg acaagatatg gttgcgccga actaagccta ataaacggaa ttaccaagtg 360
 gttattgctg ttgatgactc tagaagtatg tctgagggca aatgtggaaa atttgctatc 420
 g 421

<210> 9109
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-052-Q1-K1-A8

 <400> 9109

 atcaaggaca agcttatatt ccctttcgta gacctcgata gatttccaga gcaccggggt 60
 catctatcaa ggacaagctt atattccctt tcgtagacct cgacatcaaa tattttgacc 120
 tcgggcttcc acaccgtgat gctaccgacg acaaagtcac agtggaggct gcggaggcca 180
 cactcaagta caatgtggct atcaagtgtg ccaccattac accagatgaa gcaagggtaa 240
 atgagtttgg cttgaaggct atgtggaaga gcccaaattg cacaattagg aatattctga 300
 atggcactgt gttcagagaa ccaatcatct gcaaaaacat cccacggctt gttccagggt 360
 ggacaaaacc catttgcacg gggaggcatg cattcggtga tcagtaccgg gcaactgatg 420
 cagttatc 428

<210> 9110
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-A9

<400> 9110

ccaactagca acatagaaag cacaatagtg taccaacaat ggcagccaaa atatttggcc 60
tccttatgct ccttggtctt tctgcaagtg ctgctacggc gaccattttc ccgcaatgct 120
cgcaagctcc tatagcttcc cttcttcccc cgtacctctc accagcgggtg tcttcggtat 180
gtgaaaaccc aattcttcaa ccctacagga tccaacaggc aatcacagct ggcattctac 240
ctttatcacc cttgttctc caacaatcat cagccctatt acatcagtta cctttgggtg 300
atttattggc aaaaacatc agggcacaac aactacaaca acttgtgcta aaaaaccttg 360
ctgcctactc tcagcaacag cagtttct 388

<210> 9111

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-B1

<400> 9111

cgcacgcgtc cgcccacgcg tccggtgact cccatggctc cggccatgct ggcgcgggtc 60
agaagaataa ccttcagcaa cctgtttgtc cgtcgggctg gcccaggcag cacggagctg 120
accgtggagg gaaggccatc cgaccagctg ggcaggagaa acctcactga cagccccgta 180
tttgacggcc gtggccctga cgccagcctc gtggctcgcg tacagggagt cgctaccag 240
atgggagcag tgcgccagtt gtacaccgtc gtgttcagg agaggccgct caagggtcc 300
acgctcgtca ccgaaggcgc gatgacagaa gggtcagacg agtgggcat ctacggtgga 360
actggagtgt tcgcgatggc gagaggcgtc ataaggagaa cgtttcttgc cgacacgagc 420
cggc 424

<210> 9112

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-B10

<400> 9112

gctcgataga ggaaagtcca gaagaggcag atgggaaaca aggtatcata agaatcgctg 60
 tttgggcaag agacagagga tcatcgaatg agatcagtga agcaagaatg gtgagagaca 120
 agacagagga gggctgggaa tttcaattag ctgaaaaact taaaggttta agttataaca 180
 tgctagaacc aggtgaagtg aggatagatg cagatataaa ggatgggggt atgatgctga 240
 taactgcatt gagtccttat gcaaactggc ttcaaggcta tgctgatgtt ctctgcagg 300
 ttaaaggcac tgttgatcag cctgttggtg atggatcagc aacgtttaac cgggctattg 360
 tgaactctcc ttttcttcgg acaccattga caaatTTTgc gggTacaatt caagtcatat 420
 tcaacagac 429

<210> 9113
 <211> 390
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-052-Q1-K1-B12
 <400> 9113

ctggaagggc cctgccaaaga actgggagaa cgtgctgctc agcctcgggg tcgccggcgg 60
 cgagccaggg gtcgaaggcg aggagatcgc gccgctcgcc aaggagaacg tggccgcgcc 120
 ctgaagagtt cggcctgcag ggcccctgat ctcgcgctg gtgcaaagat gttgggacat 180
 cttcttatat atgctgtttc gtttatgtga tatggacaag tgtgtgtagc tgcttgcttg 240
 tgctagtgtg atgtagtgtg gtggTggcca gtggcacaac ctaataagcg catgaactaa 300
 ttgcttgctg gtgtagttaa gtaccgatcg gtaattttat attgcgagta aataaatgga 360
 cctgtagtgg tggagtaaT aatccctgct 390

<210> 9114
 <211> 444
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-052-Q1-K1-B2
 <400> 9114

cgactcggtt cgcccacgcg ttcccccacg cgtccgggct agttgtgcaa gcccttgatc 60
 gtgctgatga gagccaaaag cgcattctat ttgaaaatta tggcaagaaa gatccagcct 120

gtgtggcaaa agtgaagaac ctctacaaag aacttgacct agaggcggta tttcaggagt 180
acgagaatga gagctacaag aagctgattg cagacattga agcccagcca agcattgcgg 240
ttcagaaagt gctgaaatcc ttcttgaca agatctacaa gaggcagaag taggggtgctc 300
ttggataaac gagctcagga gtcgttactc ctctcgatgc ttgacataac cggacttcct 360
cacctggttg ctctagtatg atgtggagcg tctagttaaa aaaaatcgat gtagtatgaa 420
gcaccttgct gctctgaata ttaa 444

<210> 9115
<211> 280
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-B3

<400> 9115

cccacgcgtc cgcggacgcg tgggatctct ctgatctggt ctgttcggcc gccctggctc 60
cgtcatcgtc gactccccct gcgtccgttc ctttgatct gaataaatg gtggtgatct 120
gagtgggtgt cttagtttat catgtatcgc tcgcagttta atttagcgggt ttaggtgtgg 180
atctgtgaac cccatggcgc ctctgcttga ttcgtgttcc acctgttatg ttctgagatt 240
catgataatg ctatgagaac tgaaattccc gtttcatgct 280

<210> 9116
<211> 205
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-B4

<400> 9116

gcgcactcgt tcgcccactc gtccgcttct ctagtattta ttacttata ttaaactgca 60
tagggtttgt taaatgttat agattccagg agacagaaat cgagcgttcg atcggcgcgt 120
cctgtgattt ctgtcattct gagctatgaa catgtttgct ttaatcatgt tatcggattc 180
agatgcatta attaatacgt ttggt 205

<210> 9117
<211> 433

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-B6

<400> 9117

cgcaactcgtc cgcccacgcg tccggcaaca tagaaagcac aatagtgtac cgacaagtgt 60
agccaaaata ttttgccctcc ttatgctcct tgggtctttct gcaagtgtctg ctacgacgac 120
cattttcccg caatgctcac aagctcctat agcttctctt cttcccccat acctctcacc 180
agcgttgtct tcaagtatgtg aaaacccaat tcttcaaccc tacaggatcc aacagggaat 240
cacagcaggc atcttacctt tatcaccctt gttcctccaa caatcatcag ccctattaca 300
tcaattacct ttggtgcatt tattggcaca aaacatcagg gcacaacaac tacaacaact 360
cgtgctagca aaccttgctg cctacgctca gcaacagcag ttacctttgg tgcaattggt 420
ggcacaaaac atc 433

<210> 9118
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-B7

<400> 9118

cccacgcgtc cgcccacgcg tccgctgacg cgtggggcgcg ccgccgccgg cgccgggact 60
gaaggaagag gaggagcaag gagcacgacg cgatgggcca ctccaacgtt tggaactcgc 120
accctaagaa ctacggccct gggtcccgcg tctgcccgggt ctgcgcgaac cctcacggtc 180
tgatcaggaa gtacgggctc atgtgctgca ggcagtgtt tgcagcaac gccaaaggaca 240
ttggtttcat caagtaccgt tgaagaggcc actgtgtctgc tgcggagaac ttcctacatc 300
aaagaaatgg gtccttcatt agaaggccta atttatgcgc tttagctttt tgttcagaac 360
ttgagactca tgtgttaaac tcgacttggt aaagttttga tggctacttt gtgcttggtg 420
gaccagctat aatc 434

<210> 9119
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-B8

<400> 9119

ctatactata ctctaggaag caaggacacc accgccatgg cagccaagat gcttgcgatt 60
gttcgctctc ctagctcttt gtgcaagcgc cactagtgcg acccatattc cagggcactt 120
gccaccagtc atgccattgg gtaccatgaa cccatgcatg cagtactgca tgatgcaaca 180
ggggcttgcc agcttgatgg cgtgtccgtc cctgatgctg cagcaactgt tggccttacc 240
gtttcagacg atgccagtga tgatgccaca gatgatgacg cctaacatga tgtcaccatt 300
gatgatgccg agcatgatgt c 321

<210> 9120

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-A3

<400> 9120

cccactcgtc cgacacaata gaccactgat ttcacaatga aaagggagac aatgcgttca 60
tggctagaac tgttgcttgc aacacaattc tttacgactt gtgctaacca tcttcttgct 120
agtcgcaatg aatgtaacct attttgcacc cagtgtgaga ccaaaccagc tgctttctgt 180
aactattgtc gttcaagtga tcattccacc caccgtgtaa tccagataag gcgttcacgc 240
taccatgacg ttgtgagggt gtccgagatt gaggatatcc ttgatgtcag cgatgtgcaa 300
acttatgtaa tcaatagtgc aaggattgta ttctgaatg agcggccaca actgcgtgct 360
tctagtgtcc ccatttgtaa ggcaccaca tcatcaacac ataactgtga gacatgtaac 420
cgtgtgctac 430

<210> 9121

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-H1

<400> 9121

agcgcactta ctcccaaacy gagaacttta caccatgaag gagctgatcg atggacttgc 60

tctgatggcg ctgcctggca ggcacgctc cagtacaagc cgcggctggc gctgccagac 120
acaaccgttt gatctaccgc ctcaaggcta tatgccgtct ccgctctatc tgccgccgga 180
gcaacatcca gaacgacggc aatacccaac tcaagcacgc cagctaacc cgtgccatca 240
gctccgatcc tgatgcgtca gcagcgctcg ccgcccgttc ctgcgccagt gcgtcgaagg 300
actgaggcac cactgcaatc cggcggcgac actgtaccgc tcgacacagt gccaggcgct 360
gcatcagcag tgctgtcacc agatcacgca tgt 393

<210> 9122
<211> 164
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-H10

<400> 9122

ccgacgcgtc cgcccacgcy tccgcctttg cgttcgccca cgcgtccgcc cacgcgtgcy 60
agcaaacatg ctgagacatt tagttgaacg aacctgagtt gttccgagat ttctgtcggg 120
attattcaat tggaattttt gaagcttggt attctattgg atct 164

<210> 9123
<211> 440
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-049-Q1-K1-H11

<400> 9123

cacagttcct ccgaccagtt acttcaatgg gtttcgaaca cctagctgtg caagcctaca 60
ggctacaaca agcgcttgcy gcgagcgtct tacaacaacc aattaaccaa ttgcaacaac 120
aatccttggc acatctaacc atacaaacca tcgcaacaca acagcaacaa cagttcctac 180
cagcactgag ccaactagat gtggtgaacc ctgtcgcta cttgcaacaa caggtgcttg 240
catncaaccc acttgctctg gcaaacgtag ctgcatacca acaacaacaa caattgcaac 300
agtttctgcc agcgtcagt caactagcca tgggtgaacc tgccgnctac ctacaacagc 360
aacaactgct ttcattctagc cctctcgttg tgggtaatgc acctacatac ctgcaacaac 420

aattgctgca acagattgta

440

<210> 9124
<211> 286
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-H2

<400> 9124

aaaacacatg ctactacacg tagaaagtta cacattgaag ctgcatccac aacgcatgca 60
tcggggggcg ttgcaacgct ctgtacaaga ccacctaata cgacgcatat tccactagac 120
aggactccag gtatgcacat tcttaagacg aaccataca tgcagtactg cataatggaa 180
catagctca gtatgcttgat tactcgacag tccatcatgc taaatcccct ggtggacata 240
cctcatcaca cgatgccaaa gatgacgcct cagatgatga cgcta 286

<210> 9125
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-H3

<400> 9125

ctactatact atactctagg aagcaaggac accaccgcca tggcagccaa gatgcttgca 60
ttgttcgctc tctagctct ttgtgcaagc gccactagtg cgacgcatat tccagggcac 120
ttgccaccag tcatgccatt gggtagcatg aaccatgca tgcagtactg catgatgcaa 180
caggggcttg ccagcttgat ggcgtgtccg tccctgatgc tgcagcaact gttggcctta 240
ccgcttcaga cgatgccagt gatgatgcca cagatgatga cgcctaacaat gatgtcacca 300
ttgatgatgc cgacgatgat gtcaccaatg gtcttgccga gcatgatgtc gcaaatgatg 360
atgccacaat gtactgcca cgccgtctcg cagattatgc tgcaacagca gttaccattc 420
atgttcaacc caatggcca 439

<210> 9126
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-H5

<400> 9126

gtgaatatgg tcagccatcc agttcccatc tcttctactt ctctactact acttatggac 60
ctaacgtagg cgtccacact caaaattggt gcacggttct gcctttctcc acgcgctggc 120
cgcgaaatctc gtcggtctac caaatccgtc gcgaatctcg tccacaaaac ttccagccat 180
ggctgccgtg accaatccat ggcagccgcg ccctgggtccc tcgaccgcg cggcttccat 240
ccatgggtgct tcttcttggt gtgggtgttcg gatcgagtc cactgaccga accgaaccac 300
tggtcgacgg agcagatgac acgatggcca tcttcctggc gctgcggtcg ccgaagctgg 360
aggtgtcggg cctcaccact accttcggca acgtccacac cgccctcgcc acgcgcaacg 420
cgc 423

<210> 9127

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-H6

<400> 9127

gtggaatgtc aaataagatg tgggacagcc ttgttgagca tgcaaagaca tgtgtcttaa 60
gtggaaagca ttatgtatac tatgctagag actcaagaaa cgtgggtgca atattcaata 120
acatctacga gttcactggg ttgattgccg atgatcagtt catttcagct gaaaatctca 180
cagacaacca gaaggtctat gctgatgcat tggtaaagaa agcatatgag gactggatgc 240
aagttgtaga atatgatggc aaggcactct tgagcttcaa gcagaaaaag aaaactgtca 300
cgacaagaag tgacgttgca tctgcctcaa caagcaatcc tgcttcatat gggtcggcca 360
attcacagaa acagttgtct cttccagcaa aagctggaca aacttcctca gcgggtacta 420
tgaatgaaga tggaact 437

<210> 9128

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-H7

<400> 9128

cggacgcgtg ggtgctgctt atttgcaaca acaactacca ttcagccagc tagctgctgc 60
ctacccccag caattacttc cattcaacca actggcagca ttgaactctg ctgcttattt 120
acaacaacag cagctaccac cattcagcca gctagctgat gtgagccctg ctgccttctt 180
gacacagcaa cagttgttgt cgttctactc gcacgctgcg cctaacgctg gcaccctctt 240
acaactgcaa caattgctgc cattcaacca acttgctttg acaaaccag cagcgttcta 300
ccaacaaccc atcattgggtg gtgccctctt ttagattgct tatgagttat agttcaataa 360
tgatgttttt tggatgatgt ttgtggcttc ccagaaataa gaaagtacat ttctag 416

<210> 9129

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-H8

<400> 9129

gcttatttgc agcaacaact attaccattt agccagctag ctactgccta ctctcaggga 60
caacaacttc ttccatttaa ccaattggcc gcactgaacc ccgctgctta tttgcagcag 120
caaatactac taccatttag ccagctagct gcagcaaacc gtgcttactt cttgacacag 180
caacagttgc tgcctttcta ccagcagttt ggggctaacc ccgcaaccct gttacaacta 240
caacaattgt tgccctttgt ccaacttgct ttgacagacc cagcggcctc ctaccaaaaa 300
cacatcattg gtgggtgccct cttttagatt gcttattagt tgtaattcaa taataaagtt 360
ttttgatga tgtatgtggc caaccagaaa taagaagtta catttccaga aaaa 414

<210> 9130

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-H9

<400> 9130

cccacgcgtc cgcccacgcg tccggtaatc accccaaatc ctagggttct agtcgcttgt 60
cgtcgttttcg ttcgtagatc acagcgacaa tggatgaaggc agttgctgtc ctgcgcggca 120

ctgatgtcaa gggcaccatc ttcttttcac aggaggggga tgggccgacc accgtgactg 180
gaagtatctc tggcctcaag ccagggtcc atgggttcca tgtgcacgcg cttggcgaca 240
ccaccaacgg ctgcatgtcg actgggccac acttcaatcc tgttggcaag gagcatggcg 300
caccggaaga tgaggaccgc catgccggtg atcttgggaa tgtgacagcg ggagaagatg 360
gtgttggttaa tgtcaatatt actgacagcc agatacctct tgetggaccc cactcgatca 420
ttggccgagc tgttgttgt 439

<210> 9131
<211> 421
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-052-Q1-K1-A1

<400> 9131
cggacgcgtg ggcgattctt accaatcccc ctggcctgct gctttcctga taatcgacca 60
gttccccagt cttgctccct gcagtcctcc ctctccatc tccagcgttg tgttctgact 120
cacctgcacc aatggctggt ctttctgctg ctgggtgctc cccggcctca gctatcgggt 180
ttgagggtta tgagaagcgc cttgagatca cattctctga ggcacctgtc tttgtggacc 240
cccatggcag cggtttgctg gccctctcca ggtcccagat tgactctgtt ctggatcttg 300
cacggtgcac gatcgtgtcc gagctctcca acaaggattt tgactcctat gttctctccg 360
agtcaagctt gttcatctat cctctgaaga ttgtcatcaa gacctgtggc actaccaagc 420
t 421

<210> 9132
<211> 361
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-052-Q1-K1-A10

<400> 9132
cgcacgcgtc cgaaaaaaaa aaaaattaaa taaaaaaaaa aaaaaaaaaa aaaaaaagaa 60
agaataataa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaataaa aaaaagtgcc tcccccttta aatattccaa gtttactatc 180

ccttatttcc aaattcaaac cttttttata tcgtccctta aattaaatac catacccgtc 240
 attttacaat tatcaccctg gaaaaacctt gacttatcca acctaaaaca ttttttacia 300
 aatccccctt taccacttg ccatattacc aaaaaacccc taccaaaact ccttctaaaa 360
 a 361

<210> 9133
 <211> 429
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-052-Q1-K1-A11
 <400> 9133

cgagcagtag cggcgacatc aggaagctca tgatggagga catgccgatg gtgtcggcca 60

aggtagaggg gcctaacgcc aggaggatcg acggcttcct gtacaggtac aagaagggcg 120
 aggacgtaag gatagtgtgc gtctgccatg gcagcttcct ccccccgcg gagttcgta 180
 agcacgctgg cggcggtagc gtatcgaacc cgcttcgaca tatcgtcgtc aacctgcgc 240
 cgttctcgtg aagagggagg gttacgctcc tgttgctgct ggtatcgatc gtgctgtaac 300
 atgtttagt aggtccttg tttccgggag ttcaatggaa ggtctctctc tatatttgac 360
 atggattgag tgtgacagca aatccaagag aaacatcatc tacaaatgtt agacttgtct 420
 acaaattga 429

<210> 9134
 <211> 383
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-052-Q1-K1-A12
 <400> 9134

cttctggta tttctgaaac tgctgctatt ttgctgggtg ttgatgtcac caaggagccg 60
 attccagttt tgcctactgt gcactacaat atgggcggta ttccaacaaa ctaccatggg 120
 gaggtagtgg atatcaaggg tgataatcca gatgctgttg ttcttggtct aatggctgct 180
 ggtgaagcag cctgtgcac tgttcatggt gcgaataggc taggcgcaaa ttcgcttctt 240
 gacatagttg tttttggcag agcttggtgca aacagggtag cagatatttc taaaccaggt 300

gagaagcaga aacctctgga aaaagatgct ggagaaaaga ccatagcctg gttggacaag 360
 ctgaggaatg cgaatgggtc att 383

<210> 9135
 <211> 271
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-A2

<400> 9135

ctcacgcgct acgtgcctat caagagtgcg aatgatacat actgtgatac tcaagggctg 60
 gggctcaatt gtacgcacat tcagtagagc cgtattggag ctctatggaa cattataaat 120
 ggcactgtgt ccagagagcc taatgtacgc agcttcctta cacgaccatg ccaaggatgg 180

actaagccca tgtgcatcgt aaggcatacc tactgtgatc aataccacac taccgatgca 240
 gttatgaccg tgctgtcaa gctcgatact a 271

<210> 9136
 <211> 325
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-049-Q1-K1-G9

<400> 9136

gctgcagggg agacagacgg gtacttcac anaggtggaa ttgtcacagt gatcaaggat 60
 gctttactcc ctagtggaac agttatatga agtgaacgtg cgacatgcag ctgtgtgtct 120
 cgacattcga caatgatcag cacctggtta catgcgtgat ctgcagatca gtctgttgga 180
 gatcatcgga gcaataaaaag tgtcatccaa ggcatttttt ctttcttttt gctcttttgt 240
 gtccttcaat gttgtagggt agaattgtgt agcagcaa at gtttagttaca tgttgaatcg 300
 acattggggg cctggatttg gggat 325

<210> 9137
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-F3

<400> 9137

cggacgcgtg ggcggacgcg tgggtgcaac aacaattacc attcagccag ctagtgtgctg 60
cctacccccca gcaatttctt ccattcaacc aactagcagc attgaactct gctgcttatt 120
tacagcagca acaactacta ccattcagcc agctagctga tgtgagccct gctgccttct 180
tgacacaaca acagttgttg ccgttctacc tgcacgctat gcctaacgct ggcaccctct 240
tacaactgca acaattgctg ccattcaacc aacttgcttt gacaaactca acagtgttct 300
accaacaacc catcattggt ggtgccctct tttagattgc ttatgagtta tagttcaata 360
atgaagtttt ttggatgatg tttgtggcgt cccagaaata agaaagtaca tttctagatt 420

<210> 9138

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-F4

<400> 9138

cccacgcgtc cgatgcgaag aagaaagtga tggatgtggt ccacaatata accgactttt 60
tcagggactt gttcaatgac tcagccgagg cccagaccgg agcaggccct tcagctgaga 120
agggcttttc tgcaacagag atggctgtgg gaggatcctt catggctctg accatagcgg 180
tcaccttagt tgttctgttc aagagggcat gatagctcaa gagtcatggg taccttctgg 240
gacccatcgt gctttaaatc tgtcgaaaat tactcgtctg tcgtatggtc aataattccg 300
aatgcaatgt atagcttgct cgtttctttg gaaacagtac aataaaggat ttatctaaag 360
tatgctc 367

<210> 9139

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-F5

<400> 9139

cccacgcgtc cgctacactc ctcaaattct tgagcaagca ggcgttggtg ttcttctgtc 60
gaacctcggc cttaacgctt cttcggcac cctcctcatt agcgccctga cgaccttact 120

gatgctccca agcatcggca ttgcatgag gctcatggat atgtccggaa ggaggtttct 180
 cctcctcgcg acgatcccag tctaataagt cgcgtactc gtcttgggtg tgtccaacat 240
 cgtggacgtg ggggacgtg cgcacgcggc gctctccacg gccagcgtca tagtctactt 300
 ctgcttcttc gtcattgggt tggggcccgt cccaacatc ctctgcgag agatcttccg 360
 caccacggtc cgcggtgtct gcatcgccat ctgcgccctg gccttctggc tgggtg 416

<210> 9140
 <211> 436
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-049-Q1-K1-F7

<400> 9140
 gagagggtgt tttgtctctc ttcaactcca catcaacaaa accaatggaa ccaactcggg 60
 atgctacttg gtctttctgc aagtgtgct accgcgacca ttttcccgca atgtcacat 120
 gtcctatag cttaccttct tccccgtac ctctcaccag cgggtgtctt ggatgtgaa 180
 aaccaattc ttcaacccta taggatccaa caggcaatct cagctggcat cttaccttta 240
 tcacccttgt tctccaaca atcatcagcc ctattacagc agttaccttt ggtgcattta 300
 ttggcacata acatcagggc acaacaacta caacaacttg tgctagcaaa ccttgctgcc 360
 tactctcagc aacagcagtt tcttccattc aaccaactat ctgcattgaa ctctgctgct 420
 tatttgcaac aacaac 436

<210> 9141
 <211> 164
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-049-Q1-K1-F8

<400> 9141
 ggtggacgat ggggggggtg cgtgggaggt cgtgggcaca agggcaaggg tggcgaatag 60
 tggcagtgct agtgtgagca atgacctgaa tgaacaattg aaatgaaaag aaaaaagtat 120
 tgttccaaat taaacgtttt aaccttttaa taggtttata caac 164

<210> 9142
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-G1

<400> 9142

cacgctcttg cgcccagacc caaatatttc tccactcaat cactgcagtc atggacgcca 60
acggagccag tagcaaggcg aagaacgggg cggtctgggag caaggctggc ggccccagga 120
agaagtccgt gtctcggacc gtcaaggacg ggatgcaatt tcccgtaggt cggatcgggc 180
gctacctcaa gaagggcccg tacgcgcaac gcgtgggcac cagcgccac gtgctatctc 240
gccgtcgtgc ttgagtacct agccgacgag gtgctggagc tggacgtcaa cgcttcgaag 300
gacaacaaga agacgcgcat cgtaccgtgc cacgtgctcc tggcgatcgc gaactacgtt 360
gaactcggcg cgctactgtc tggcgtcacc atctg 395

<210> 9143
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-G10

<400> 9143

cggctcgacg catgcatcca cgggtacaat gattgacaac aatgctctaa cagtttacac 60
taatataata ctcaattgtg actgtgttca agaagctgct atgtagacag accgatactt 120
catcaaaagt gcaatcagtc aactaatca aggatgcttt actcactact ggaacagtta 180
tatgaagtga actttcgaca tgcagctgtg tatctctaca ttctacaatg atcagcacct 240
gattacatgc atcatctgca catcagctctg atcgagatca tcgcatcaat aaaagtctca 300
tacaagg 307

<210> 9144
<211> 410
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-049-Q1-K1-G11

<400> 9144

gaagataaga agcggaggtc ctactctcct gccagtagag atgatgctga caatgtttat 60
gagaagaggt cgccccagc agacagcgat ggatcttctc tgcacgcaa gtccccaaa 120
gagtactcgg gctcaacttc tggatcccgg ttcaagtccc gcgacgaatc ccctgttgcc 180
agtgactgat cgaccgatgg atgctacaat atgaatgata tgcgcatgac cagcatggtc 240
atgcngtcat cagtcctatg cctntgtcag actgagctca ctaaacttac ccccttttg 300
gggtcgatgt tgtattgcta agttccgttt gtgctaagta ttagcgcata ctgctagact 360
gccactgtcg tctgtactat gcatgctntt gatctcgagt gatcgtgttg 410

<210> 9145

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-G2

<400> 9145

cccacgcgtc cgcccacgcg tccgggctca caccagctag ctggctgaat ggtagtagtt 60
gttgtgagcc ctgctacctt cttgacacaa ccacagttgt tgccgttcta ccagcacgct 120
gcgcctaacg ctggcaccct cttacaactg caacaattgc tgccattcaa ccaacttgct 180
ttgacaaacc taacagtgtt ctaccaacaa cccatcattg gtggtgccct cttttagatt 240
tcttatgagt tatagctcaa taataaagtt ttttgtctga tgtttgtggc ttcccagaaa 300
taagaaagta catttct 317

<210> 9146

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-G4

<400> 9146

ccagagcgca gaagaacccg atcgacacca tgatggtggt gctcgttgcc ctgctcggc 60
tggggctcgc tgcgagcgcc acctacacgc atacaagcgg cggctgcggc tgccagccac 120
cgctcgtcgg tcatctaccg ccgtcgggtgc atctgccacc tgcggttcac ctgccaccta 180

cggtgcatct tccaccgccg gtccacctgc cgccgccgta ccacctgcca acgacgggcc 240
atgtgccgcc gacgggtcat gtgtcgctgc caccatgccg atacctact caacctgcac 300
ggactcaggc taacattagt catacgcatg cccgggctaa ctgtctcatg caagcccgtg 360
ccag 364

<210> 9147
<211> 257
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-049-Q1-K1-G6
<400> 9147

ctctaattaa atggaaatgt gaagtggtag gaccgttgaa gtaaatacgt gggattggct 60
catgcacgtt gggagatcag atcttcgctt gcataggatg cagactagcc tacctactca 120
tacgtataac tagatattgt atattatata actaagaaca attccctatc cgctttaata 180
catggctctg actagcaata ccataactgc acccatctta atgctctgcc aatacatcac 240
acatatgaca tctgtcc 257

<210> 9148
<211> 426
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-049-Q1-K1-G7
<400> 9148

cccacgcgtc cgccacgcg tccgcccacg cgtccgcgga cgcgtgggcg ccggcctggc 60
cttcctgggtg ctgtgctggt gtgcccagga tcacgggcgt ggagagcaag cgaccggcgg 120
cggcccggcc gttggagcag cagccgccgc cgctgctcct cccgcgcggg aggctgtaat 180
catcagccgg caccagcatt cgcagccgtc ggccgcggcg atggcggaga gcaagcggct 240
cccatccct ccgtccgggc cgtccactaa gtggaactac gaggcgaatc acgagaagcc 300
gtcgctcgctg gagtcgggct cgggccgccg ccgcctcggg tgggtggtgg ccccgtagcg 360
cggccgggtg cgggtgggttc ttgagagctg cagagatctc aaggctcagc tagcgtcgtg 420
tgtgtc 426

<210> 9149
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-G8

<400> 9149

acctttctcc ctactctcag caacaacaat ttcttccatt caaccaactg tctacactga 60
 accctgctgc ttatttgcag caacaactat taccattcag ccagctagct actgcctact 120
 ctcagcaaca acaacttctt ccatttaacc aattggccgc actgaacccc gctgcttatt 180
 tgcagcagca aatactacta ccatttagcc agctagctgc agcaaaccgt gcttccttct 240
 tgacacagca acagttgctg cctttctacc agcagtttgc ggctaacccc gcaaccctct 300
 tacaactaca acaattgttg ccctttgtcc aacttgcttt gacagaccca ggggcctcct 360
 accaacaaca catcattggt ggtgccctct tttagattgc ttattagttg taattcaata 420
 ataaagtttt ttggat 436

<210> 9150
 <211> 394
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-F2

<400> 9150

cccacgcgtc cgcggaacacg tggggaatca gctgtggcgg cagcaaacgc aggcgaatgc 60
 gacggtgtga gggaaggagc accagccatg gtgcacgtca acttctaccg taactatggt 120
 aagacgttca agaaaccaat gcgttcttat gagaaggagc gtctagatgc tgaactgaag 180
 ctggtccgtg agtatgggct gatgtgcaag cgtgagcttt ggaggggtcca gtatgcactg 240
 agcaggatcc gtaatgctac aaggcacttg ctcacccttg acgagaagaa ctatcgctcg 300
 atctctgagg gtgaggcgct tcttcgccgc atgaaccgct atgatctgct agctgagggt 360
 cacaacacgc ttgattatgt acttgccctc accg 394

<210> 9151
 <211> 420
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-D8

<400> 9151

cccacgcgtc cgcccacgcg tccgcaggaa ggacatggag tgtgcccact gcaagtcggc 60
agagagcaac atgtgtgatc tgctcaggat caacaccgac cgcggtgtga tgattgccga 120
tggcaagtcg cggttttcaa tcaatgggaa gcctatctac cactttgttg ggacttacac 180
cttcagcgag tacaccgtca tgcattgtgg ttgtgttgca aagatcaacc ctccaggctcc 240
ccttgataaa gattgcgtcc atagctgagg tatatctacc ggtcttggtg catcaattaa 300
tgttgcaaaa cctgcgaagg gtccgacagt agctgcattc ggtgtacgag ccgttggtct 360
tgccgctgca gaaagtgcac ggattgctgg agcgtcaagg atcattggtg tcgacctgaa 420

<210> 9152

<211> 388

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-049-Q1-K1-D9

<400> 9152

gccacgcctt cgtgaagtac aaagaaggtc ttactagga agaaggaatt ccgattgggg 60
gccaagcaat ctgggctggt attttcaatg acttgggtaa tgggaacaac cttgaccttt 120
tctttataac caaagtgaag acagaatact ggaaaaacca accagtgccg aatccaagac 180
ttatgctagg tcaaagggat acatgttcac gaaggtgcag actgaggtac tgacttaagg 240
tcacacttta aacacaaagt gaggtcgacg aggggtggaga tgctatcgag gagtgatctt 300
gcatgcctgc attcatacaa gcataatnctg aatctgtgta actttgctta gtgaatcagc 360
tagaacatga aaaatgaaaa tttggaga 388

<210> 9153

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-E10

<400> 9153

ctccatacaa gggaagcgcg acacacaagc tacaggtttt agaagatagc attcccagct 60
tccaaagggc tgggtacaatt gtgccaagaa aggacagatt cagacgcagt tctactcaga 120
tgggtgaatga tccatacact ctggtgatag cactcaatag ctcaggtgct ggagaaggcg 180
aactttatgt ggatgacggg aaaagttatg agtaccagca aggggcattc atccatcgcc 240
gatttgtctt tgcagacaat aagctaactt cattcaatat tgggcctgac gatttgggca 300
agaaatttag aagtgattgc gtgattgaaa gaattataat cctcggttta cgatccggag 360
tgaagaaggc tattattgag cctggaaatc aagaactaga aattgaatca gggccaatta 420
gtttaaggag t 431

<210> 9154
<211> 169
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-049-Q1-K1-E11
<400> 9154

ctgcctacta tttttttatc gaattcctcg agtaaaaagg aaacctgctc gatgtccgtt 60
tgtttgttgt ttggtaatac cgttctgttt gctataatta tcgatcagcg ggatgtgaag 120
tactgtttac attgctcgcg ttctaataaa gtactgtttg gacttgctt 169

<210> 9155
<211> 433
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-049-Q1-K1-E12
<400> 9155

gagcatcatg tagtaccact caacgtttgt ccatgtgaga ctcgtatcac atgctcagat 60
acctggctta aatctatcac attacaagcc tattacatgc ttcaattact agagtagcaa 120
gcggaagcgg catggcgaaa gcgtcatcgt gggcgggcggc gatgagcgtc ggcaccgtaa 180
aggcgtcaa ggaccagtcc ggctgtgcc gctggaacta cgcgttccgg caggcggcgc 240
atcaacgcgc caggaggcca gcggcaagcg cgagcggctc agtctgcccc ggcagcgcgc 300
actcgccgac tgcttatgct ccctcggact gcacacgtgc ggagaggagg agagccaggc 360

aacatcagga ggatgagctc cggacgggtca tgtacctcat caactgcagt cccaacaact 420
agctacgaac tat 433

<210> 9156
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-E2

<400> 9156

gtgacacgtc ttttttcaat ttcttagtta ttttttatcg ctgtatgatt cacgaacggc 60
atggggctta tgtaagaact ctttaacatg tgaaatgcaa ctgctaacat caacattgag 120
ataagtactt gaatctattg tcgatatgaa ctaactaata ttgtatgacc tgaagggacg 180
aaagaccaac gaaattgtgt acatccaact tgaaagacgc agtaattgca gtgctcatag 240
ggctgaatat gatatccaat aaaccactaa ctaagtgttt aaacgaacta ctataatcga 300
ctatcaatac acaaacatct acttta 326

<210> 9157
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-E4

<400> 9157

cctactcaga cccgagaagc gcagctgctg ccatggacgc caccggcact ggagctggag 60
ggaaggcgaa gaaggagcg gcctgtcgca aggccggctg tccgaggaag aagtcggtga 120
ccaggtccgt gaaggccggg ctccagttcc ccgtcgcccg catcgggcgc tacctcaaga 180
agggccgcta cgcgacgcg gtcgtctgcg gtgccccgt ctacctcgcg gtcgtcctgg 240
agtacctcgc cgctgaggtc ctggagctcg tcggcaacgc tgccaaggac aacaagtaga 300
cgcgcatcgt cctgcgccac gtgctgctgg cgatccgcaa cgacgaggag ctcgtgaagc 360
tgctgaccgg cgtgaccatc gtccacggct gcgtgtt 397

<210> 9158
<211> 402

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-049-Q1-K1-E7
 <400> 9158
 catggatgca gtactgcatg aagcaacagg gggttgccaa cttgctagcg tggccgaggc 60
 tgatgctgca gcaactgttg gcctcaccgc ttcagccgtg ccagatgcca atgatgatgc 120
 caggtatgat gccaccgatg acaatgatgc cgatgccgaa tatgatgcca tcgatgatgg 180
 tgccgactat gatgtcacca ataacgatag ctagtatgat gccaccgatg atgatgccaa 240
 acatggtttc accaatgatg atgccgagta tgatgccttc gacgatgacg ccgagtatga 300
 tgccaccgat aatgatgcca agtatgatac caccgatgat gatgccgagc atggtgtcat 360
 caatgataat gccaaacatg atgacagtgc cacaatgtta ct 402

<210> 9159
 <211> 435
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-049-Q1-K1-E8
 <400> 9159
 gaccaactag caacatagaa agcacaatag tgtaccaaca atggcagcca aaatattttg 60
 cctccttatg ctcccttggtc tttctgcaag tgctgctacc gcgaccattt tcccgcgaatg 120
 ctcacaagct cctatagctt cccttcttcc cccgtacctc tcaccagcgg tgtcttcggt 180
 atgtgaaaac ccaattcttc aaccctatag gatccaacag gcaatcgag ctggcatctt 240
 acctttatca cccttggttc tccaacaatc atcagcccta ttacagcagt tacctttggt 300
 gcatttattg gcacaaaaca tcagggcaca acaactacaa caacttgtgc tagcaaact 360
 tgctgcctac tctcagcaac agcagtttct tccattcaac caactagctg cattgaactc 420
 tgctgcttat ttgca 435

<210> 9160
 <211> 379
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-049-Q1-K1-F1

<400> 9160

cccacgcgtc cggctacgcg tccgcaactga gttctaacca cgcagacctc aacaagaagc 60
agcgtgctcg tctccgaaag gtaaggcacg tgacaagatg tcgatacaag catacgtcga 120
atagctcctg atgtcctaga tcgaatgaca gcactaatac tcctactaca tcttctgtca 180
cgacagcagc gtttgggagc agtccgagtg cttaccccag ttaaagcctg ctgagggtac 240
tgctatcata aacgacttat atgaaccttg tactcttgta ccaactggta ttttaattgg 300
atgtacaaag tacattatga tccaaagtga acctggaatt atcatccgat gacagaaggt 360
cactgctggc attactatc 379

<210> 9161

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-F10

<400> 9161

cccacgcgtc cggccggatc ggacgagtg actacatttg cttccattaa gtcctaaaga 60
aaaagagggc aggcacgaag aggagaaaga cagtaactg aaggacgagt tccacaagtt 120
actgaatggg aaccatgcgg atcctactga tcgtcgacag cggacacaca tgaacgggag 180
gcacgacgaa gacatcaatc acgcgtctc cgaggccact gccaacggca cgtaagggcc 240
cgtcggcatc tgctttcaac cgggggcttt gaccttggcg ctcgcaggag aatcctcgcg 300
ggggtcgaga aaacctgcct ggtgtggtgc cccggccgcc tttttctgaa ttatgaagct 360
gtccgagatt ccagcgatcc agccattcac atcatgcac ttcctgaacc 410

<210> 9162

<211> 443

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-049-Q1-K1-F11

<400> 9162

ccgacgcgtc cgcccacgcg tnccgcgtac ccttggttcc tggcccagaa cccacggagg 60

acacttcaaa ggttgggcac ctaattagcc atcgattcag gctcttatcc atgggctgaa 120
caggcactac tactcaattg caatcaatta ccgaaaaat gagctagagg agaaaatgtt 180
gttgaacttg cacaaaaaga aatggacaga tggactaatt ttgaagaggt ttgacactca 240
ctcaaaaacc aacgagcaga ctgtccagga aatgctaaac ctagccatca agtacaacaa 300
ggcagtgcaa gaggaggacg aactgccacc tgagaaactt gcgatagcaa atgtgggtcg 360
gcaagatgca naaaagcatt tggaagagca tgtgtccaat ttgatgtcat caaacatagt 420
tcagacccta ngaaccatgc tcg 443

<210> 9163
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-F12

<400> 9163

aaaccatcag ggcacaacag ctgcagcatc tcgtgctacc tgtgatcaac caagtagctc 60
tggcaaacct ttctccctac tctccgcaac aacaatttct tccattcaac caactgtcta 120
cactgaaccc tgctgcttat ttgcagcaac aactattacc atttagccag ctagctactg 180
cctactctca acaacaacaa cttcttccat ttaaccaatt ggccgcactg aaccccgctg 240
cttatttgca gcagcaaata ctactaccat ttagccagct agctacagca agccgtgctt 300
ccttcttgac acaacaacag ttgctgccgt tctaccagca gtttgcggt aaccccgcaa 360
ccctcttaca actacaacaa ttgttgccct ttgtccaact tgctttgaca aaccagcag 420

<210> 9164
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-D7

<400> 9164

ggcgttgact atatggtcca taatgcagcc ttcgaacgct ctaaacggag ggctctagaa 60
gaaagtgagg aaggtcttaa ggctacattg aatgtcaatg tcttcggaac tattacttta 120
actcgccttc tagcacctta catgcttgat agagggatgg gccattttgt tgtgatgagt 180

agtgcctgctg gaaaggttcc tgctcctggg caggccatctt actctgcctc caaacatgct 240
 cttaatgggtt actttgcttc tctgcgatct gagttgcgta caaaaggcat taaggctact 300
 gttatctgcc ctggaccgat tgaaacacta caatcttctg ctgcagcttc ttcacgcaa 360
 acacattctg ctgagaaacg tgagaaacgt gtttcgggtg aacggtgtgt tgaactgaca 420
 attggtgctg ctac 434

<210> 9165
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-049-Q1-K1-C12

 <400> 9165

aaaacccttc tttttgtgaa aaaggagttg cctggggttg cttgaaggac ccttgagggg 60
 ttcccttggg gttgggttg tgctgattat gtggttgagt ctactggggt tttcactgac 120
 caggaaaagg ctgcagctca cttgaagggt ggtgccaaga aggttgtcat ctctgctcct 180
 agcaaggatg ccccatgtt tgctgttgg gtcaacgaga aggagtacaa gtctgacatt 240
 aacattgtct ccaatgctag ctgcacaacc aactgccttg ctctcttgc taaggctatc 300
 aatgacaagt tcggtatcgt tgagggtctg atgaccactg tccatgccat cactgctacc 360
 cagaagactg ttgatgggcc ctcatctaag gactggaggg gtggaagggc tgctagtttc 420
 aacatcattc cca 433

<210> 9166
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-049-Q1-K1-C2

 <400> 9166

ctctatcgtc ccgatccgtc gttcatcaga gtcgtaaccg tacgccctcg ttccctcgt 60
 cgctctccca agtcccaacc ccggttcctt tgggtctgag gagcgagcat ggcgtcgccg 120
 tcgcccgcg tctcgtctct ggagacggag gcgccccagg ctaccgtcac gagggagcgc 180
 aggtcaacc ccgacctgca ggagcacctt cccaagccat atctcgcgag ggctatggtg 240

gcggtggacc cggaccatcc gaccgggacc gaggggcgcg acccccgcg catgagcgtg 300
 cttcagcagc acgtggcttt cttcgaccgc aacggcgacg gcgtcgtcta cccctgggag 360
 actttcaaag gcatgcgagc aataggggtgt gggttcttta catccctcgt catctcgttc 420
 ctcatcaacc tcgtcatga 439

<210> 9167
 <211> 166
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-049-Q1-K1-C3
 <400> 9167

gtattgctat gggatcctgt gccaaaacaa tactactacg caacaggatc ccatagcaat 60

acgagaaatg tgcaacgtct cataagaaca ggcactgcat aaattgaagg aaagaatgat 120
 ttccatcgat ttatgcagtg cctgttctta agagacgtag cacata 166

<210> 9168
 <211> 251
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-049-Q1-K1-C4
 <400> 9168

ccccgctatc gcatactctt ccacggtcgc gcttctacgc atcaggatcc catagcggta 60
 cgagcaatgt gcaacgactc acaagaacac gcactacgta aatagaagga ccgactgatt 120
 tcacatcgat taacgaactg cctgcacgac cgagacgtag cacatattga ggacagcgac 180
 atgattctga cgcttcctgt cagagacatc tcgcacgagc tgatgacaga tccgaatgcg 240
 tccatcgacc c 251

<210> 9169
 <211> 415
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-049-Q1-K1-C5
 <400> 9169

caagggcaag cggttccgcg ccggcgacgt gctcgcgttc aggtacaacg ccaaggcgca 60
 caacgtggtg cccgtgagcg cggctgagta caggctcgtc agtgcgcca agggcgtgag 120
 ggcgctcacc actgggaacg accgcgtcac tctgaagcgc ggcgccaact actttatctg 180
 cagcttccca ggccactgcc aggccggcat gaagatcgtc gtcaccgacg cgtgaggcct 240
 tcggccgatc agccgtgctg gctacgacga ccgctggaca cacggtctcg atcgggtggc 300
 agcttattat tattgttatt tccctgttca aagtaaaagc gtcgcgtcct taacctgcgt 360
 gtaggtagag cgggtgtagg tgtgtagaga ccggccggca ctattgaaaa cttaa 415

<210> 9170
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-C6

<400> 9170

gagaccaaca agcatcatag aaagtggaat ccagtagcaa caatagagca acaatggcga 60
 ccaagatatt ttccctcctt atgctccttg ctctttctac atgtgttgct aacgcgacaa 120
 ttttccctca atgctcacia gctcctatag cttcccttct tccccatac cttccatcaa 180
 ttatagcttc aatatgtgaa aaccagctc ttcaaccata taggcttcaa caagcaatcg 240
 cagcaagcaa cataccttta tcgcccttgt tgtttcaaca atcgccagcc ctatctttgg 300
 tgcagtcatt ggtacaaacc atcatggcac aacagctgca gcaactcgtg ctacctctga 360
 tcaaccaagt agctctggca aacctttctc cctactctca gcaacaacaa tttcttccat 420
 tcaaccaac 429

<210> 9171
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-C7

<400> 9171

cggacgcgtg ggcttggaca aggggggtttt gggaaagtat ataaaggagc acttccagat 60
 ggcactaaga ttgctgtaaa acgggttaact gattacgaaa gtccagggtg agaggctgct 120

ttcttgcgtg aggttgagct aattagtgtt gcagttcacc ggaatctttt aagattgatt 180
 ggtttctgta caacacaaac agagcgcta cttgtttatc ctttcatgca aaatcttagt 240
 gtggcctacc gactacgaga atttaaactt ggggagccaa tattagactg gtctgcaagg 300
 aagcgagtgg ctataggcac agctcgtgga ctggagtatt tgcacgagca ctgcaatcct 360
 aagattatac atcgtgacgt caaggctgcc aatgtcttgc ttgatgaagg ttttgaac 418

<210> 9172
 <211> 420
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-049-Q1-K1-C8
 <400> 9172

cccacgcgtc cggcgcgag agtgagagcc cgggagaagc agcggctggg agcaagatgg 60
 tgcagcgctt cacctaccgg aagcggcaca gctacgccac caaatcgaac cagacccgcg 120
 tcgtcaagac acctggtggg aaacttgtgt accagtacac caagaagcgc gcgagcggac 180
 cgaagtgccc agtcaccggg aagaagatcc aaggaattcc acacctgaga cctgctgagt 240
 acaagaggtc caggttggca aggaacaaa ggactgtgaa tcgtccatat ggtggtgttc 300
 tgtctggtac tgcagttagg gagaggatca tccgtgcctt tttggtcgag gaacagaaga 360
 tagtgaagaa ggtgttgaag atccaaaaga ccaaggataa ggccttcaag agctagacga 420

<210> 9173
 <211> 414
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-049-Q1-K1-D1
 <400> 9173

cccacgcgtc cggatggaag aggttagacg gttgcgagtg cagcagcgta tccgaacttc 60
 tgaaagcaaa gatgccaaca ctgaaggaaa tgaaatgcct gagattccat caactattcc 120
 atttatgcct gatgcgtcac caaagactat gaagcaactc tatatgacat cgttctctgt 180
 catatctggg ataatcattt ttggaggctt gatagcccca gtacttgaac tgaaactagg 240
 gctgggtggc acatcttatg aagatgggat aaggaccttg cacttacctc ttcaattgag 300

tcacgtagat cctatagtgg catcattttc aggtggcgca tttggtgtta tctcagcttt 360
aatgttggtc gaagtgagaa atgtcaggca gcaagagaag aaaagatgca cata 414

<210> 9174
<211> 278
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-D10

<400> 9174

aacctgtgct ggtcttttca atgactctgt gtagtgcgag caacgtgtac gtctgcgtga 60
taaccaatgt gaacacagaa tacttgagaa accaccagtt gccgaatacc acgacttatg 120
ctagttcaaa ggcatacagt ttcacgaacg tgcagactga tgtactgtct tcaaagggtca 180

cacttctaaa gcacaagggt gaagtccccg aggttggtaa tgctattcac gagtgcattt 240
gcatgcctgc attcatacaa tcatattctg aatctgtg 278

<210> 9175
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-D2

<400> 9175

gccacgcgtc cggatccact acctcagaca gttgtgagt caccagcgta cacgaactgc 60
agggggcaaa ggtaccagct ctgaatgaca tgaactgccc gagatgtcat caactgtgcg 120
atctatgcat gactcgacag cctacactat gaagccactg tatatgacct gatccgatgt 180
catatctggg atcatcatgt tagacaggct cgatcgcccc aatacttgaa ctgaaactac 240
ggctgagtac cccatgttat gaagatggta caaggagctt gtactgacct ctacaatcga 300
cttacgttaa cccataacct gcatcatagc caggaggcgc atcagctgtt atctcagcat 360
atactgatgg ccgaagtg 378

<210> 9176
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-D3

<400> 9176

cacaagccca cggagtgctt tctctgata ctcacatca ggaacaggct caagtatgct 60
ctgaactacc gggaggtcat ttctatcctg atgcaactcc atgtacttgt tgatggcaag 120
gtcaggactg acaagaccta ccttgctggg ttcattggatg tcatttccat cccaagaca 180
atggacaact acaggctgct ttatgacacc aagggccgct tacgtcttca cacaatcacg 240
gatgacgatg ccaagttcaa gctctgcaac gtgaggtctg ttcagcttgg ccagagaggc 300
atcccctacc tgaacaccta cgacagccgc accatccgct accccgactc gtcacatcaag 360
gccaactaca ccatcaagat cgatctgtag accaacaatga tcat 404

<210> 9177

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-D4

<400> 9177

cccacgcgtc cgcggacgcg tgggggtcaat atagtacctg gcattgaatc cgtgtactgg 60
tggggaggga aggtacaatc tgatgctgaa gaattactca tcatcaagac cagggaatca 120
cttctggatg ccttgactgc acatgtcaaa gccaatcatg aatatgatgt tcctgaagtt 180
attgctctgc ccataactgg tggtaacacc aagtatttgg aatggatcaa gaacagcacc 240
cgggacaagt gatctctttt tttttggagc tcgacataat gcgatgatcg aagtgcccat 300
ggctccttag ctcttccagt ggcttgcaac caagggtgta tctctcttg acctggacat 360
ctcaattacg ttgctgtacc gaatccatat ctaccatctt caggtaacaa gtgatttggt 420
gtcccgtgtg ggtaatcca 439

<210> 9178

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-D5

<400> 9178

gcgtggagcg caccgcctcg gtcgactcga gcaagccggt ctcgaggtcg ctggctgctg 60
 agttcgacca ggaggctgac ggggaggaag aggacaatgc tggagagacc agcgatccag 120
 atgacggcag tgtgcagtac ctgaggagga ggctcaagga ggagatgctg ctgaaggagg 180
 ttgcgctcga ggagctggag aaggagaggc atgccgcagc gtctgcagcc gacgaggcca 240
 tgtccaagat tgcgtgcctg cgtagcgaga aggcgctggt ggagagggag gcgcggcaat 300
 tccaggagat gatgcagcag aagcagatgt atgaccggca ggtgatcgag tcaacttcagt 360
 gggatgatcat gaagtctgga atgcaaggct gggagccaga ggccataact gatcg 415

<210> 9179
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-D6

<400> 9179

cggacgcgtg ggttgtgatt gcggcagcac cgccgaccac gagcccgccg aaaggctcct 60
 ccgcctgccg ttccagggtg cactgccgcc attgctcatc tccccgtggt gcggagggtcc 120
 acccgggcgc caattggtct cctctttcgt tggcagactg agtggcatcc aatcctgaat 180
 caatgagggg ctgggggtttg ctcgtgttat cgctacatgt tctttcatgc ctggtttagtg 240
 gcgttgcttc tggtcgaaca agctcttatg tgcgcacaga gttcccatct acagatatac 300
 ctctagaaag tgaatggttt gctattccaa agggatacaa tgctccacag caggttcata 360
 tcaactcaagg tgattatgat ggaaaggcag ttatagtatc ttgggttact ccagaagaac 420
 ctgggccaag tgaagt 436

<210> 9180
 <211> 385
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-A4

<400> 9180

agcagctcag gcaggcggag ccgaaggacc ggtaccaggc gatcttgggc ttgttcctgc 60
 agtcgatcct gcagcaggag ccgtaaagcg gacagatcgc ggtgctgatg gcggcgcaga 120

tcgcgcacca gctgaccgcc gattgcggcc tgcagcagcc gactctatgc ccctacgctg	180
ctgccggetg tgtccccac tgaagaaact atgtgctgta gtatagccgc tgcatagcta	240
gctagttgag tcatttagcg gcgatgactg agttatcatg tggcacgcat caccatgggt	300
ggcagtgtca gtgcgagctg agaccctaata gaacaatgga actgaaacgc agcaagtcac	360
gacacacaac atagtcgcta tgaga	385

<210> 9181
 <211> 387
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-049-Q1-K1-A6
 <400> 9181

gtggagccgc agcaccggta ccaggcgatc ttcggcttgg tctccagtc catcctgcag	60
cagcagccgc aaagcggcca ggtcgcgggg ctgttgccgg cgcagatagc gcagcaactg	120
acggcgatgt ggggctgca gcagccgact ccatgccct acgctgctgc cggcgggtgc	180
ccccactgaa gaaactatgt gctgtagtat agccgctggc tagctagcta gttgagtcac	240
ttagcggcga tgattgagta ataattgtgc acgcatacc atgggtggca gtgtcagtgt	300
gagcaatgac ctgaatgaac aattgaaatg aaaagaaaa agtattgttc caaattaaaa	360
aaaaaaaaa ctaaatcaaa caaataa	387

<210> 9182
 <211> 373
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-049-Q1-K1-A7
 <400> 9182

aaaatttttag gggactaaga aacctgatca gctggtggag caagaaaaga gtgatgttat	60
tagtccagct gatgcccaacc gtcctgctgc tatttgctggg cttcatgggg aggacagtga	120
gtcaaagcct gcaccagggg gggaaaactc agaaccgat acacaagtct caccagacag	180
gctattgcga gcagcccttt tgaggagccg ttatgctgat gtgattgtca aagctcgtgg	240
cattcttagt caggggtggag acaaacagga agagctggaa aagctacaga aggaagagaa	300

agagcgcttg ttggctgaag gtactgcagc catggaggct thtagagccg aagctgaaac 360
tgaaaagaag cgt 373

<210> 9183
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-A8

<400> 9183

accaactagc aacatagaaa gcacaatagt gtaccaācaa tggcagccaa aatattttgc 60
ctccttatgc tccttgggtct ttctgcaagt gctgctaccg cgaccatttt cccgcaatgc 120
tcacaagctc ctatagcttc ccttcttccc ccgtacctct caccagcggg gtcttcggta 180

tgtgaaaacc caattottca accctatagg atccaacagg caatcgcagc tggcatctta 240
cctttatcac ccttggttct ccaacaatca tcagccctat tacagcagtt acctttggtg 300
catttattgg cacaaaacat cagggcacia caactacaac aacttgtgct agcaaactt 360
gctgcctact ctacgaaca gcagtttctt ccattcaacc aactagctgc attgaactct 420
gctgcttatt tgcaacaac 439

<210> 9184
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-A9

<400> 9184

tcatcgttct cgctgtgtgc caggctctgt cagctgccag cgcctctgca atgcagatgc 60
cctgcccctg cgcggggctg cagggttgt acggcgctgg cgccggcctg acgacgatga 120
tggcgccag caggctgtac ccctacgcag agtacctgag gcaaccgcaa tgcacccgc 180
tggcagcggc gccctactac gccgggtgtg ggcagccgag cgccatgttc cagccgctcc 240
ggcaacagtg ctgccagcag caaatgagga tgatggacgt gcagtccgtc tcgcagcagc 300
tgcagatgat gatgcagctt gagcgt 326

<210> 9185

<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-B10

<400> 9185

ctccgttgag tcgagggcggc tccaactccg gctcgtggcc tcgcggacca acatggccgc 60
cccttcgccc tcgccgttgagggtaccct accgcctgag gccgcggctg ccgccgagga 120
agaccagtgg gatgctgacg gatatgttat tcctaatttg cccactcaag ataatgatgt 180
ggctgagcct agtgtcccca aagaaaaaga tcctgagcct ctacaggcaa gcgatgagaa 240
aatatatctg ggacctcatg gagctccacc atctcaagca aagcagcagg agctgaacac 300
cgttggccgc aagcagcggg tccggaacaa actgaaggaa gcagatagga aattctccgg 360
caatgctcag gagaacaaga tggagagcct aaggagctg ctgggtgcta gaggtggtac 420
tggtaccagc ct 432

<210> 9186
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-B2

<400> 9186

aaaaaaaaa aaaaaaaaaa aaaaaaatta aaaaataaaa ataataaaaa aaaaaaaaag 60
aaaaaggtaa aaaggataaa aaagaacata actatgagct atgtggaaca tacttttaag 120
gggtggatgt ttttaatgga ttgtttttgc agtccttggg ttttcaaggg gagtctatta 180
tttgtttacc tttagtattg ttaatggcca gtagtttatg acattggggg ttcttataag 240
cgtggtctgc ctatactatt tccattttct ggcatttacc atttatcctg tcgggctatt 300
tagaatgagc tctctgatgt tcctgttgtc aaccttttac attggcagat ctgcattggg 360
gactaccct atcgatcgt tt 382

<210> 9187
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-B4

<400> 9187

attggcacaa aacatcaggg cacaacatct acaacaactt gtgctagcaa accttgctgc 60
ctactctcag caacagcagt ttcttccatt caaccaacta gctgcattga actctgctgc 120
ttatttgcaa caacaactac cattcagcca gctagctgct gcctaccccc aacaatttct 180
tccattcaac caactggcat cattgaactc tcttgcttat ttacagcagc aacaactact 240
accattcagc cagctagctg gtgtgagccc tgctgccttc ttgacacaac aacagttatt 300
gccgttctac ctgcacgctg cgcctaacgc tggcaccctc ttacaactgc aacaattgct 360
gccattcaac caacttgctt tgacaaaacc agcagcgctc taccaacaac ccatcattgg 420
tggtgccctc ttttagattt ct 442

<210> 9188

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-B6

<400> 9188

cccacgcgtc cgattgagac caacaagcaa catagaaagt ggaatccagt agcaacaaca 60
gagcaacaat ggcgaccaag atattttccc tcttatgct ccttgctctt tctgcatgtg 120
ttgctaacgc gacaattttc cctcaatgct cacaagctcc tatagcttcc cttcttcccc 180
cataccttcc atcaatgata gcttcagtat gtgaaaacc agctcttcag ccctataggg 240
tccaacaagc aatcgagca agcaacatac ctttatcacc cttgttggtt caacaatcg 300
cagccctatc tttggtgcag tcattggtac aaaccatcag ggcacagcag ctgcagcaac 360
tcgtgctacc tgtgatcaac caagtagctc tggcaaacct ttctccctac tctcagcaac 420
aacaatttct tccattc 437

<210> 9189

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-B7

<400> 9189

agcattcact atattgacca taatgcagcc gtcgaacggc ctaaaccgac ggctctggga 60
agacgtcagg agcgacttat ggctacatcg tatgtaagtg cctactgaac tatgcacttg 120
aacttgactg ctcacacctt acatgcttca tagaggcatg taccattttg ttgtgatgag 180
tattgcttct atcaatgata gcgctaatat gcaagccctc aactctgcat ccatatatgc 240
tcttactggc tattgtgggt agctgcatac tgagatgact atagatggca taacagtca 299

<210> 9190

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-B8

<400> 9190

cgcaaattgc accaagaaaa ccatggagag gccgacgaca ggggaattaa tggcgtcggg 60
gactatcagc agccaccgcc gcctcattct cgcagtcgcg gtccctgctct ccggtgctcgc 120
ggatgccagc gccagcgccg ggaccttctg cgagccgtgg tgggccatcc cgcacaaccc 180
gtccccgagc tgccactggt acgtgaccag ccggacctgc ggcatcgggc cgcgccttcc 240
gcggccggag ctgaagagga gatgctgccg ggagctggcg gacatcccgg cgtactgccg 300
gtgcacggcg ctgagcatgc tcatggacgg cgcgatcccg gcggaccggc acgcgcagc 359

<210> 9191

<211> 230

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-049-Q1-K1-A3

<400> 9191

gtcgaagcgt gaggcccggg tgaggggtgg gttctatgta accccagagg ccaagcttct 60
gttggtgggt cgcacccgtg gtatcaatgc catgcacccc aagaccgca agatcttgca 120
gtcctgcca ttgaggcaga tcttcaacgg gtgtatttcc tcaaagttaa caaggcaacc 180
attaacatgc tgcgcanggt ggagccatat gttgcgtacg gataccccaa 230

<210> 9192
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-G8

<400> 9192

cccacgcgtc cgcggaacgcg tgggattcct ttgcctgagt tcatgttcat cgcaggtcag 60
 acagcccatt ctcttccttt ctggattgca agatgaacta gtccccctc cacacatgaa 120
 gatgttatat gacaaagctt ctgatcataa cagaaattgc agatttggtg attttcctag 180
 tggatatgat atggatacct ggatgtctgg aggggaccgc tactggagga caatccaatt 240
 gttcttggat caatacgtc ctggagtgc gaatcatgat gccagcttca aaagtgaaat 300
 tgccgaagat gatgaagctg ctgattgact ggaaaatctg gatcggactt tttccaaatt 360
 tctggttcct gatgttgctg caatttggca 390

<210> 9193
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-G9

<400> 9193

cccacgcgtc cgccccacgcg tccggaatct atgggattga ttttggatac tagtgagagt 60
 gaagaagacc atgtgcaggg acacaagaaa cgaaaggcta cttctgcaca tctccaaaag 120
 cttcaacagg agttgagtga tctcttgcaa tgcccattgc agcctaagac tttctctcgc 180
 cgctatattg ctggggctgg tgtctcacc ttacttcaga agcaactaga agagttggcc 240
 aagagaaatg caagcaacaa tagcagcaag agtaagaata aaggatctgg gtttgttggt 300
 attggtcagg atcgtgtcga gcccttgcaa gcacttcaaa attctgggca agaggtctgt 360
 gtgaacatag acaaagaaag ggaaaagcga agagtcgctg agaactggag gcggaagaag 420
 catg 424

<210> 9194
 <211> 452
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-H10

<400> 9194

atggccgggg ggtaccacg cgtccgcca cgcgtccgca gaatacagca agggcaatgc 60
atatgctcag gttgccattg gcaccaatga tgtgtacaag agcgccgagg cggttgatct 120
ggcgacaaa gaactagggtg gcaagatttt gcggcagcca gggcctctac ctgggatcaa 180
cactaagatc gcctcttttg ttgatccaga tggctggaaa gtggttcttg ttgacaacac 240
cgacttcctc aaggaactcc actgaaggct cgggataccc aggtgctgtg ctaggatgta 300
gtaatgcttg tctgtgggtg aataagatgt gggtggtttg tttctgccct gatgaactta 360
taatactgaa tggtgctaca gaggttggtgc ttctgccagt gaggtttggg atttgctatg 420
taactgtgcc tgcgggctcc gattctggcg ct 452

<210> 9195

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-048-Q1-K1-H12

<400> 9195

ggggtcacca agggctaccg ctacaagatg aggttcgtct acgcccactt ccccatgagc 60
gcctccatca ccaacagcaa caccgccatc gagatcagaa acttctctcg cgagaagaag 120
gtcaggaagg tggacatgct tgatggcgtg accatcctcc ggtccgagaa ggtcaaggat 180
gagctcatcc ttgacggaaa cgacgtcgag ctcgatatct gctccgccgc cctcatcaac 240
cagaaatgcc atgtgaagaa gaaggatata cgaaagtttt tggacgggtat ctatgtgagc 300
gacaagggcg tcatcgaaga ggagcagtga gcgacagagt agccgaaatg ccaggagatg 360
aatatggatg tcgtttgagt tgcaattttg tgagactgaa tgtgaaccct ntntctcatt 420
ccttaaatag 430

<210> 9196

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-H4

<400> 9196

actgacgcgt gggaaaaaaaa aaaacaaaaa aatataatta aaaaaaaaaa acaaaacact 60
aaaaaagaag cgctcattat ataacgtgac catgaataca tccaccttct accgaatcaa 120
catctctacc atattctacc tctaactcaa ttgcatcgcc tacgctttct tacgcaacac 180
actggaaaaa caacgtgctt acccacttta actagccttt ctgactattc cactttttcca 240
acatcgcctt atacctacaa ttccttgacg catat 275

<210> 9197

<211> 216

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-H6

<400> 9197

acgttgccctt cgcgtacacc tactccatgc ttctcataga aatccaggac actgtgaagg 60
cagggccatc agagaacgtg acgatgaaga gggccagctt ctacggcatc agcgtgacga 120
ccatcttcta cgtctcgctc ggggtgcatcg gctacgcggc cttcggcaac gccgcgccgg 180
ggaacgtgct taccggcttc gacgaagccg tctggc 216

<210> 9198

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-H7

<400> 9198

cccacgcgtc cttattttga ttctgcactg ctcccgtaga caaacgtggg tctcaataag 60
gcaggcagga atgcatctgc cagtggaaca gagcaacctg cacattattt atgtatgcct 120
gttcattgga gggcttggtc attacatgtt cgtctatact agaaaaaaca gaatattagc 180
attaatctat agttaattaa agtatgtaaa tgcgcctggt ttttggtgtg tactgtaatc 240
atctgagttg gttttgtgaa attttcgtaa aaagaatgaa tgtaaaatcc agaaaatgta 300
atgccgtgta atatccttat ggaacaatgt ataatctttt ttctcaccac caccagtttc 360

ttccattcaa ccaactg

377

<210> 9199

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-H8

<400> 9199

agaccaacta gcaacataga aagcacaata gtgtaccaac aatggcagcc aaaatatttg 60

gcttgcttat gtccttgggt ctttctgcaa gtgctgctac ggcgaccatt ttcccgaat 120

gctcgcaagc tcctatagct tcccttcttc ccccgtaact ctcaccagcg gtgtcttcgg 180

tatgtgaaaa cccaattctt caaccctaca agatccaaca agcaatcaca gcttgcattt 240

taactttatc acccttgggc cttcaacaat cattaaccct attacattaa ttacctttgg 300

tgcatttatt ggcaaaaac attaaggcac aacaacttcc acaacttggt ctaacaaacc 360

ttgctggcta ctcttaacaa cagcagtttc ttctattcaa ccaactatct gtattgaact 420

ctgcttctta ttgcaacaa caacaac 447

<210> 9200

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-H9

<400> 9200

aaacgttaca aggcagagcg agcaaaatat tcggcatttc ttgcttccca ggcgacagcc 60

tcctgatctg gtgatgatta gcacggattt gcaccagaaa attctgaacg tttatatgaa 120

gctgatggcc actattggta ctgcacatag tggagactgg agagtaagca aactgcagc 180

gtcacttggt ctaatgctca cggaagtggg taggatgtcc aggtgatgtc aggccgagag 240

ctatagtoga aatctctacc aattgagcag ttcttgtaac ccagattttg ttcttagata 300

cctcatacgt actcacattg aagttttttt ttttttaaaa aaatatatat ttagaaagga 360

cagacattaa gattcc 376

<210> 9201

<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-A1

<400> 9201

gtgttttcttg tgaggtttta tatattttcc tgtttctctc tgctgatgag gagtcaacaa 60
gcttgcttag tgtatgcaaa ggcattctga accaaagtcc cgtcgttatc ttggtgtttg 120
tttccactct agtaggctgg gcagtgaagc aagccaccaa cgtcatccag atgaaaactg 180
ctgcggacgc atgcgtgggtg tatgatctga agcgcaccag atgaagcatg aaagcagctt 240
cacggcttag tatcgacata tccaaggga aactctgcga gggggcgggc tacatcttgc 300
gtgccttgac atctttctga tgatgcggtc atatgttga ccaggggatt ac 352

<210> 9202
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-A10

<400> 9202

cttggccctc actgagcagc cttccaagtt tgatttttac gatccaaaaa cacctttcgt 60
cactgcaccc cgatgcttgc ctacgacgca attggacaag tgcacgatga aatatgcatt 120
tatctcacat ggttgcttac tgagagaatg caacatcgag cattctgaga ttggagtctg 180
ctcacgtgtc agctctggat gtgaactcaa ggactccgtg atgatgggag cggacaccta 240
tgaaactgaa gaagaagctt caaagctact gttagctggg aaggtcccag ttggaataag 300
aaggaacaca aagataagga actgtatcat tgacatgaat gctaagattg ggaagaacgt 360
ggatgatcaca aacagtaagg gcatccaaga ggctgatcac ccggaagaag ggtactacat 420
aag 423

<210> 9203
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-A11

<400> 9203

cccacgcgtc cgcccacgcg tccgcaccaa cgcattattgc accaagaaat ccatcgagag 60
gccgtcgaca ggggaattaa tggcgtcgtc gtctagcagc agccaccgcc gcctcatcct 120
cgcagccgcc gtctgtctct ccgtgctcgc ggctgccagc gccagcgccg ggacctcctg 180
cgtgccgggg tgggccatcc cgcacaaccc gctcccagc tgccgctggg acgtgaccag 240
ccggacctgc ggcatcgggc cgcgcctccc gtggccggag ctgaagagga gatgctgccg 300
ggagctggcg gacatcccgg cgtactgccg gtgcacggcg ctgagcatcc tcatggacgg 360
cgcatcccg ccgggcccgg acgcgc 386

<210> 9204

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-A12

<400> 9204

gggtgggttg cttctcctcc ccttccgttc cggtttcggg tccgtgaggt tctccggggg 60
tcggtttcgt ggggtgaacgt atcgagatgg cgtcgtcgga tgttgagtac cgctgcttcg 120
tcagcggcct cgctgtgcc acggacgacc actccctcca caacgccttc agcacctacg 180
gcgaggtcct cgagtccaag atcatcctcg atcgggagac gcagatgtcc cgcggcttcg 240
gcttcgtcac cttctccacg gaggatgcga tgcggaacgc catcgagggc atgaacggca 300
aggatctgga cggtcgcaac atcacctca acgaggccca gtccc 345

<210> 9205

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-A2

<400> 9205

gcctattatt catggtatct gccggttgca tgtgccctgc tgctctctgg cgagaatttg 60
gacggttatg gggatgtaga gaacatcctt gttgaaatgg gaacatactt tcaagtccag 120
gatgactatc tggattgtta tggatgacct gaatttatcg gcaagattgg aacggacatt 180

gaagattaca agtgctcatg gctagttgtg caagcccttg agcgtgctga tgagagccaa 240
aagcgcatc tatttgaaaa ttatggcaag aaagatccag cctgtgtggc taaagtgaag 300
aacctctacg aagaacttga cctagaggcg gtatatcagg agtactagaa tgagagctac 360
aagaagctga ttgcagacat tgaagcccag ccaagcattg cggatcagaa agtgctgaaa 420
tcct 424

<210> 9206
<211> 404
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-048-Q1-K1-F11
<400> 9206

gtggagctct gtggaggctc ttctgtcgtg atgttccatg gggacctccc ttactgggca 60
aaagacatcc tcaagaagct agagactata gatgaagaaa atatcattgg agcaggaggc 120
ttcggaaactg ttataaaact tgcaatggat gatggcaatg tctttgcttt gaaaaggata 180
gtgaaaacaa atgaagggtc agatcgggtc tttgatagag aacttgagat attgggaagt 240
gttaaacatc gctatttggt caatctccgt gggtattgca actccccttc atcaaaactt 300
ttgatatatg attatcttca aggtggaagt ctggatgaag tgcttcatga aaatcttgac 360
agttggattg gatgcaacgt attaacatta tacttggagc tgca 404

<210> 9207
<211> 428
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3059-048-Q1-K1-F12
<400> 9207

ctgtgcatct cccaccgccg gtccacctgc cgccgccgt ccacctgcca ccgcctgtcc 60
atgtgccgcc gccggttcat ctgccgccgc caccatgcca ctacctact caaccgcccc 120
ggcctcagcc tcatccccag ccacacccat gcccgtgcca acagccgcat ccaagcccgt 180
gccagctgca gggaacctgc ggcgttgga gcaccccgat cctgggcccag tgcgtcgagt 240
tcctgaggca tcagtgcagc ccgacggcga cgccctactg ctgcctcag tgccagtcgt 300

gccgcagcag tgttgccagc agctcaggca ggtggagccg cagcaccggt accaggcgat 360
 cttcggcttg gtctccagt ccatactgca gcagcagccg canagcggcc aggtcgcggn 420
 gctgttgg 428

<210> 9208
 <211> 217
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-F3

<400> 9208

cacacgcgtg gggttgtctc cctgtcgctt tccgtgccta gatgtagaac cggacccgca 60
 gaggcgaggg ccgcctatat tctactccta ttagaacgcc cgtgaccggg attacgtgga 120
 gcaagcgcgg atgtcaacgc tgcactcaga gtctaccgtc gaatccccca tcaaggcggc 180
 cgaatacaag gacaccgtaa aggccgatca ccagctg 217

<210> 9209
 <211> 370
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-F4

<400> 9209

ggaagatgag ccactaaatc cttagacgtc gacagaacca tacgtgcaaa tcagatacga 60
 aggggggaga cacagagcaa ttcatttcca cccgtgcaat aagatggaag tcagaaccat 120
 gtagttgttt tcgtttgtaa ttttctttct atagtgtgaa atttgacaag gctgttagtt 180
 tgcacctcgg atctgcttat atccacaggg caatcgatag ttcagcaagt attgagctat 240
 acctatgtcc cgagaagatt agatgagttg gcgtcttggc gatcgatgtg ggcttttccc 300
 gttgttggtc cttgcaattt attttcgaaa aaaaaagaaa catgttcgct ttaagcttta 360
 ccattccggt 370

<210> 9210
 <211> 412
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-G10

<400> 9210

gctctcggtc gccatggccg ggggatacac atgcgtaacg ctcgatcatgc taacatgatg 60
aagtacctta aaataatgac cgagagacat gtagaggggc tattaaggca tgatccacac 120
gaatatcatc tgccatcaaa agctgcatgg tgcagacata cacagcaagc tgcaaaccct 180
ttgctaggct actctactgt ggaactcact ggctaattac ctggatcggc tcttactagc 240
cagctcacat ccatccgtat gcactctgat aattgacaac tgccatcata ccctactatc 300
atatgaacca cacgcatcat ttgcacacgt cgttcccatt ctagaaccag cagttctaga 360
tgtatgagct tctcctggac aacctgcac gtctgatcca tcagcactat ct 412

<210> 9211

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-G11

<400> 9211

ctcatcgtct catcctcttc ctccctcccg ccaaacgcag ccgaagagga aaggagaggc 60
ggcgaggatg gggcggaagc ggaaggagtt gctgtcgtcg gctccatgga ggacggggga 120
ggcggcggag gacgaggacg cggcaaggat gagccgagag gggaagggtca gcgtcaccag 180
caaccccgga gagacgcca ccatgagcgt gcccgggagc aagcgccagg acctcgacct 240
cacgctcgac gacttcgagg aggacgagat cgaccccgag ctgcgctact ccttcacagc 300
gaacagcagg tttctg 316

<210> 9212

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-G12

<400> 9212

gtcgccgtga acgaccctt catcagcacc gactacatga cctacatgtt caagtgcgac 60
actgtacacg gacagtggaa gcaccatgaa gtcaagggtga aggactccaa aacccttctc 120

tttggtgaga aggaggttgc tgtgtttggc tgcaggaacc ctgaggagat cccgtggggt 180
 tcggttggtg ctgaatatgt tgttgagtct actggtgttt tcaactgacca ggagaaggct 240
 gcagctcact tgaaggggtg tgccaagaag gttgtcatct ctgctcctag caaggatgcc 300
 cccatgtttg tcgttggtgt caacgagaag gagtacaagt ctgacattaa cattgtctcc 360
 aatgctagct gcacaaccaa ctgccttgct cctcttgcta aggtcatcaa tgacaagttc 420
 ggtatcg 427

<210> 9213
 <211> 154
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-G2

<400> 9213

cttcacgtca cgcgagtcgt catgcccttg ttcggttcta agattctggc ccttaaaata 60
 aactggccgg ccatttatca cacctggctg gtcgactcaa gcaagccggt ctttaggtca 120
 ctggctgctg acttcaacca ttacgtgac agct 154

<210> 9214
 <211> 466
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-G5

<400> 9214

cccacgcgtc cggggcacia caactacaac aacttgtgct agcaaacctt gctgcctacg 60
 tgtcagcaac agcagtttct tccattcaac caactagctg cattgaactc tgctgcttat 120
 ttgcaacaac aactaccatt cagccagcta gctgctgcct accccaaca atttcttcca 180
 ttcaaccaac tggcatcatt gaactctcct gcttatttac agcagcaaca actactacca 240
 ttcagccagc tagctggtgt gagccctgct gccttcttga cacaacaaca gttattgccg 300
 ttctacctga acgctgcgcc taacgctggc accttctaac aactgcaaca attgctgcc 360
 ttcaaccaac ttgctttgac aaaccaagca gcgttttacc aacaaccaat aattggtggt 420
 gccctcttta agatttctaa tgagttatag ttcaatatta aagttt 466

<210> 9215
 <211> 425
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-048-Q1-K1-F10

<400> 9215

```

ggtcaccttc cgtggtgcct gtggctgtgt acgcggtcgt ctccatccga cccatgggctc   60
atccaaaaac taaaccaa atctccccatc gatcccaact tccagtcgat ctctctgctc   120
ggctgttgcc tcccaaagcc ggcgccttaca acgagattcc tcccctcctc tctccaataa   180
ccctagcctc ctccgccgcc ggcgacgaat ccggcggttt gagtttctgt tgccagcgta   240
gccatgtcca tgttcaatag gatcttcggg aagcccaagg agcaggccaa ctccaatggc   300
ctggccactc tggacaagtt aaatgagact cttgatatgc tggagaagaa agaaaagggtg   360
ctggagaaaa aagcagccgc tgagctggag agagccaagg agttctcana agctaagaat   420
aaaag                                             425
  
```

<210> 9216
 <211> 315
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-D2

<400> 9216

```

gtgagctgtc ttctaagcct gatgatgaac cagatatcaa tacagaacat tcttagacac   60
cttgggaggc aaatgaatcg tagtaaaact gtggaacaag cgatgctgat gatggcacia   120
aggaaatcat gcaagataac tggcttgtgc tacttttcag ggagcttgaa aagcaaggca   180
tcactttgcc tgataggtac actgatgatg agttacacag attttatgtt gctgcaaagt   240
gtgactttga aagtctactt tattctggta agaagacaat tcattgtaag gaaacatatc   300
acatacttac atagc                                             315
  
```

<210> 9217
 <211> 322
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-D3

<400> 9217

aaaaaaaaa agaaaaaaca aaaaaaacaa aattttatttt aaaaaaaaaa aaaaaaaaaa 60
aaaaagaaca agaaaaaaaaa aaaaaaaaaa aggccaaccc atctaaaaaa tccaaccttt 120
cttacacatc catccttacg tcatagttct tccataactca tacctaattt caattcactc 180
cccattttat tacactgcct caacttttaa aaccttggca ttaccaaact tattcctttt 240
ccaaactata cccctttcca caacttcccc atttcccaa atgccctaac agataaaatt 300
tccaacagt ttcccattct aa 322

<210> 9218

<211> 441

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-048-Q1-K1-D5

<400> 9218

cgcagggatg cacaagatgc cattcgcgat ttggatggta agaatggttg gagggttgag 60
ctggcaacca aagatggttg tggccgtggc cgagaccgta atggttctga tatgaagtgc 120
tatgagtgtg gtgaagttgg ccactttgca cgtgaatgtc gcttacggat tggttcggga 180
gggctgggta gtggaaggcg tcgcagccga agtcctagat atcgcagccg gagccgaagt 240
cgcagccgga gccaagaca tcgaaggagc ccaagctatg gcagaaggag ctacagccca 300
cgagatcggtt ctctaggag gcgaagttac agcatgtcgc cgnactgcc accaccgnt 360
cctagaaata acagcatgtc accacggnga gcccgagaaa tgagcagatc gtcaccacca 420
cctcccataa ataacagcag t 441

<210> 9219

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-D6

<400> 9219

caacaagcaa catagaaagt ggaatccagt agcaacaata gagcaacaat ggcgaccaag 60
 atagtgtccc tccttatgct ccttgctctt tctacatgtg ttgctaacgc gacaattttc 120
 cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaattata 180
 gcttcaatat gtgaaaaccc agctcttcaa ccatataggc ttcaacaagc aatcgagca 240
 agcaacatac ctttatcgcc cttgttggtt c 271

<210> 9220
 <211> 222
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-048-Q1-K1-D9

<400> 9220
 cattgagagt gctaataagg agattgccct gtggttcccc gagggccctg ctgatgggca 60
 gagcagccag caccctgga tctacgagaa gtaaacatgg aaagtttcac atcaaacctt 120
 gagagccaga ggaagcatgt caccatttgt gctttagcaa tgttttcgaa aagattatga 180
 tctgtatctt ggaaccttat ttcaatggac caaatttctt tc 222

<210> 9221
 <211> 414
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-048-Q1-K1-E10

<400> 9221
 caactctgac ggcagcgagc cagagcttca ctattcatac tgggtgctggg aagatcgtgt 60
 cctgaaatac aaagtgatgg gcaggtaaag gttgatatgg gagagcccat cttttctgga 120
 gcagacatcc ccacaaaact ggtagctacc aagaacaaag ctgttatcca agctgagttg 180
 gcagttgagg gcttaacatg gcatgtcaca tgtgttagca tgggcaaccc ccaactgtgtc 240
 acatttgagg caaacgagtt aaagaccttg cagatcgacg atttaaaact cagcgaaatt 300
 gggcctaaat ttgagcatca tgaaatgttt cctgctcgca caaacacaga gttgtacag 360
 gttttgtctc gctcacacct caaaatgcga gtctgggaac gtggtgctgg agca 414

<210> 9222
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-E11

<400> 9222

cggacgcgtg ggcgtgtcgc gagcaagaca catcactatt aatttcactc ctggagtga 60
agattttttc atgggtccag ccaacagcaa gtacatcttc cccctgaacg ttttcagtgg 120
tccagaaggc tctctacac atgtcagaac tttcatctg ggctatgtct gtctggacac 180
aacctcgtct gatttcatga tctttgcaaa tcttaagaag ctactctgc aaaaaatttc 240
ctttttggga gacctccagt gcctgatgct gccagaatgc aattctcttg agtgtctgag 300
catcagcttc tgttccttgc ctggtttaag cacatgcaa ccgctgcaac gtctgcaatg 360
tggtcgtttg cactactgct atctaaaaag gattgagctg gaagctccaa atctaacatc 420
gttt 424

<210> 9223
<211> 427
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-048-Q1-K1-E12

<400> 9223

caccagccgc cgtcatgtcg aagcgaggtg ggggaggttc ggctgggaac aagttcggca 60
tgtcactggg tctaccggtg gcggccacgg tgaactgcgc ggacaacacg ggcgccaaga 120
acctctacat catctccgtc aagggcatca agggccgcct caaccgcctc ccgtccgcct 180
gtgtcggcga catggtcctg gccaccgtaa agaagggaaa gcccgacctc aggaagaaaag 240
tgatgccgcgc cgtcatcgtc cgccagcgca agccgtggcg tcgcaaggac ggtgtctaca 300
tgtacttcca agataatgct ggagtgattg tgaatcccaa gggtgagatg aaaggttctg 360
caatcactgg acctatcggc aaggagtgtg ctgacctttg gcctangatc gccagtgcag 420
caaatgc 427

<210> 9224

<211> 366
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-048-Q1-K1-E2

<400> 9224

caagatgatc ctcgatcggg agacgcagag gtcccgcggc ttcggcttcg tcaccttctc 60
cacggaggag gcgatcgga acgccatcga gggcatgaac ggcaaggagc tggacggccg 120
caacatcacc gtcaacgagg ccagtcctcg cggcggccgt ggaggcggcg gcggtgggta 180
cgggtggtggc cgtggaggcg gcggctacgg cgggtggcgg cgccgtgatg gcggtggcgg 240
ctacggcggg ggcggcggct acggtggcgg cggcggctac ggtggtggtg gcggcggcta 300
ccgcggtggc aaccgtggcg gcggctacgg caactncgac gggaactgga agaactgagc 360
ggtggg 366

<210> 9225
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-E5

<400> 9225

cactcatcac gccgccactg atctgctctg ttgctggtga ctaggagcag tagcgagagg 60
gatgctggat ggccaagtgc aagaaccaca cggcgcataa ccagtcgttc aaggcgcaca 120
agaacggcat caagaagccc aagcgccacc gccagacctc caccaagggg atggaccgca 180
agtttctgag gaacttgagg tactcaagga agggcaacaa gaagagtggc gaggtgagt 240
ccgaggagta agatgatggt gattgagttt gtggcgacaa atgcatctct tgtatcgcta 300
agagtcttag ctgtgaactt agttctcact tctgtgtgac tgtgatcaaa ggacttgtgt 360
atgatc 366

<210> 9226
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-E6

<400> 9226

cggacgcgtg ggggtgggtt ggcttctcct tccccctcgg ttcgggttcg ggttcgtggg 60
gttggtccgac gttcgggttc gtgggtgagc ggatcgagat ggcggcgtcc gatgttgagt 120
accgctgctt cgtcggcggc ctgcctggg cactgacga cactccctc cacaacgcct 180
tcagcaccta cggcgaggtc ctgagtcca agatcatcct cgatcgggag acgcacatgt 240
cccgcggctt cggcttcgtc accttctcca cggaggatgc tatgcggaac gc 292

<210> 9227

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-E7

<400> 9227

attgtttag acgacaacga caagaatcat atgatggaga atggaagtgg tgcggttgtg 60
cctgctaatt cttcagatag gtccgacagg tctgataaac ctttggaacca aaagacaatg 120
cgacggcttg cccaaaatcg tgaggcagca agaaaaagtc ggctgaagaa aaaggcatat 180
gtgcagcagc tggagagcag taagctgaaa cttgcacaac tggaacagga actccaaaaa 240
gctcgccagc aggaaatctt catttttagt tttgaaaacc aaaccaatcc aataattgaa 300
aatgaacctt tgacttttgc cttaaatttt gctaaatggt tagaggacca aatt 354

<210> 9228

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-E8

<400> 9228

accgagtcga caaagacggt aaccaatgga aggaacgggg cacgggcgct gtcaagcttc 60
tcagtcacaa gcgaccggc aagggtccgc tagtcatgcg ccaggctaaa acgcttaaga 120
tctgcgcgaa ccacctcgtg gcctccacca cgaagatgca ggagcatgcg ggcagcgaca 180
agtcgtgtgt ttggcacgct gctgactttg ccgatggcga acttaaagag gagatgtttg 240
ccatcaagtt tgggttcggt gaaaactgga agaagttcaa ggaattggtt gaagaaatag 300

ctgaatccct tacaaagaac caaggccagg gaagttaaaa.ttggtggtcc aacgcttgat 360
 tggttgccaa acttaattgt aaccaaggcc aattttaagg 400

<210> 9229
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-E9

<400> 9229

cgtcttcggc ccggcggcgg tggaccccaa gctggccgct ggtggcgcgc cggacgcgcg 60
 gcgcggatgc tgcaggaggc acggtgctgg accagaaggt gtggttcgc cgcctcgagg 120
 acgtcgagaa gccgcccccc gccgcgtgag ccgcgcggcg ctgctaggcc agcccacact 180
 gctgctcgct cataaaaagg gcggcgggag agcctggcag tggcaggcac tctgctcgtg 240
 ctcggccggg ctgggctccc tgcttatatc actgcattat tatactacta gtagtggtgc 300
 tggatagcag tgtgtggctg tgctaatacc agtataatac tggttctact ataatacagt 360
 cgtatcaggc atggcgtgca tcaggactgg ttgtgatagt agcaacgtga tgctcgtgcc 420
 tgtaat 426

<210> 9230
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-D12

<400> 9230

gcatgaagtt cttcatcatg tgctcatttt aggataagta acacataaaa tcttctggaa 60
 aaaagataat agtgcgtggt tttttttcat aaaataaatt ttagcttgca gttagcttct 120
 tgttcaacat tcatctggtt aaattacaat ggttaatttg aaatttggtg agagcgcagc 180
 ttcgtgagtc caaggcatg acaacaatca aacttcgtcc aactgtggg gaggctggtg 240
 atatcgatca ccttgctgca gcattttctta cttcacataa cattgctcat ggggtgaacc 300
 taaagaaatc ccctgtactt cagtacctgt attatcttgc tcagattggt ctagcaatgt 360
 ctcccttaag taacaactca ctgtttatcg actatcatcg gaaccctttc ccaacatttt 420

tctta

<210> 9231
 <211> 402
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-048-Q1-K1-B5

 <400> 9231

cccacgcgtc cgcccacgcg tccgggggcg cagaggcgca gcagggtctt ggaggaggga 60
 ggaggaggga gccgctgcgg cgcggggccc tcagcgcgcg cctcccgggtg ccggaccaca 120
 tacgcgggcc gccctacgtc ggcacggccg ccgtcccga ggtgtgcccc gaccggcagg 180

 tgcacgacgg cgagagcatc atgcggtatgc tggacgcctg cgagctcgcc gtcggggtgc 240
 tgcaccatgc cggggcgatg gtcaagccct cggtgacgac ggacgagatc gacagggtgc 300
 tgcaccagat gatcggtgac gccgggcgct acccctnccc tctcggtatc ggcggggttc 360
 ccaagagcgt gtgcacgtnc gtgaacgagt gcacctgcca cg 402

<210> 9232
 <211> 231
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-048-Q1-K1-B6

 <400> 9232

taaaagtgc gcccaattac tgccctcaat gttttgttag acttaatggc tcactacgct 60
 aacgggtcggg gtaattatat acatacatct acaataacat ctgtttaagt tacacaagct 120
 caaaacaaat ggcttcctag ctccatcggt ttgtgtgcgc gtgttcacga tattccatcg 180
 gcgaacattg acaactctgc cagcacatg actatttgtg ttcaaccttt a 231

<210> 9233
 <211> 462
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-048-Q1-K1-B7

<400> 9233

cccacgcgtc cgcagaaaca caccaagcga agcacattag caacaaccta acaacaatgg 60
ctagcaagat attatccctc cttgcgcttc ttgcgctttt tgcgagcgca acaaatgcgt 120
tcattattcc acaatgctca cttgctccaa gttccattat tacacagttc ctcccaccag 180
ttacttcaat gggcttcgaa caccagctg tgcaagccta taggctacaa caagcaattg 240
cggcgagcgt tttacaacaa ccaatttccc aattgcaaca acaatccttg gcacatctaa 300
caatacaaac catcgcaacg caacagcaac aacaatttct accagcactg agccacctag 360
ccatggtgaa ccttgccgnc tacttgcaac agcagttgct tgcacaaac ccacttgctc 420
tggcaaactg aattgcaaac cagccacaac aacagctgca ac 462

<210> 9234

<211> 148

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-C1

<400> 9234

tgtgttgatc cacagctact ggtagcaaga gtttctatcc ctgctgatgg aagtgtgcgc 60
aatgccaatg ttgacattat cgtgggtgat gctattatgt tgtggtgtat tattggatat 120
gtttgctgtt taatacacat tgttgtag 148

<210> 9235

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-C10

<400> 9235

cccacgcgtc cgccacgcg tccgcggacg cgtgggagtt gttgatgttg ctaagcgaga 60
tcgagagacc gtctatctgg gggatctaata caagcatttc gaccacacta tcaggctaga 120
tgactgttat atgtacagaa cttacagctg tagagtagag ataagcacga gagcgaggaa 180
ttgctggggg atgccgagcc gcctgatctg attgtagttc agtgccttg tcttgtgcta 240
attgctagaa aatgaatact cccagcaaaa aaatatgtaa atgcagctga agtgtacgat 300

tactaacttc tacttaatta aatcattctc agatacaggc tttttcctgc tcgtaagttt 360
 gaatatatat ttaaaaaaaaa aaaaaataaa taaaaaaaaa aaaaaaaaaa ataaaaaaaaa 420
 aaataaaa 428

<210> 9236
 <211> 412
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-048-Q1-K1-C12
 <400> 9236

ctgcttccga aggtgacagg agcacgccgc cgtggtcgtc ctctgccacc tcgggcagcg 60
 tgtcgcagcc ttcgctcagg gacatacaac agatgcagca gaagaggcac catggcgggcg 120
 tctcccacag cccaaaaacc cagacatcgg gcttctctat accgccccac agcggagcgc 180
 cagaggccgc tgtggggcgg tatagagaag cccacagcg gagcgccaga ggccgctggc 240
 ggtcgcggcg tgaaggacaa cgtgccaac cggtggttca ggccggagac cgacgccccg 300
 tcttccatcc gctccatcca gatcgaggag caggctatga aggacttcag gcgcttctac 360
 agcagcgtga ggatcgtcaa gccgcatgtc tagtagcact ggatgcggcg gc 412

<210> 9237
 <211> 157
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-048-Q1-K1-C2
 <400> 9237

cctcaattcc cttatccacc cagcgtcca ctactcaac acaccactct accaccaact 60
 cttttattat tcaccacaac ttacctctct atagactgga tttctaacia aaccttttcc 120
 ctctcatcc tccatccttc caattcatat catctta 157

<210> 9238
 <211> 388
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations

<223> Clone ID: LIB3059-048-Q1-K1-C3

<400> 9238

cccacgcgtc cgctggaggg agaggctcac ctatgctggg ctaactcaag tgtggttcga 60
cccggatgag gttgacacgc taaaagacca gttgatccat gtgacatcct tatctggctc 120
tggtttcaac atcctagtgt gtgatggcag ccttgacta gcgtggcata atcgcccgtt 180
atatgtggca acagcttggg gtgtgacagg aagaaatgct gccagttcca tggttggcaa 240
catctgtaaa ggtacaaatg ataatagaag aaaggaaaac cgtaatggac ccatggagta 300
acaggaaaga taaccatgtc atgaacaaat cgatcaagtt attaaatgca ctgttgactt 360
ccaaaaaaaa aaannttat ttttttac 388

<210> 9239

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-C4

<400> 9239

ctcgccgtcg cgggtgccgtg cgccggtgct gtccagtcta gggtttcggc cctcgcccgc 60
cgagccgtgc cccccgccgg ccatgtcgaa gcaaggaggg aaggccaagc cgctgaaggc 120
gccaaggtc gacaagaagg agtacgacga gagtgatctt gcttatttgc agaagaaaaa 180
agatgaggaa aaggcgctga aggagctgaa ggccaaggca cagaagggcg caattggagg 240
ctcgggtctc aagaaaagtg gaaagaaatg agcattgccc acccaccat ctccaaaaca 300
cctaagagaa cgaatagaca actgcttata tgggttgggc ctactatat gatatatggg 360
gcttggaata catggtgcct cttggattcc cgggttcgcg gtggtccaat tggtttgctt 420
ggatcc 426

<210> 9240

<211> 198

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-C8

<400> 9240

acgcgtccgg aaaaaataa ctcttaattt atacgagact cctaaaattc caaactggga 60
 gggatttcat agcatattgc ggaggaccat caaaaagcac atcaaattgc acatgccctt 120
 tgcaagatcg aatccatgat taaactactc ttctagcaca ttctactatc cgtaatatga 180
 ctctatctaa cttatatc 198

<210> 9241
 <211> 439
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-048-Q1-K1-D1
 <400> 9241

cccacgcgtc cgcgatgatg acgaagatga tcttgacgag gaatcttatt acatgaacag 60
 gtcgccaggc atccgtattg gtaacaggag atggggtgac aatgggtaca tcaggggagg 120
 caggaaagag gcgaggccag tgaatactga tgtggctgct ggtccatcca ggactccgaa 180
 gaagaaagag aaagccgcat cctcttcggc gtcggtgtca gtgtctgggt cggggtcagg 240
 atcggggtct gtatccaagg atgtcgctgg aaagcgggcg aagagggcgc agaagcgaga 300
 agctgcagac aaggcaactg cagagaagca cctgaagcac ctgcagaggg ttgggctgag 360
 aaaatcgcca gagcctgtag tgcccgcaga ggttgggcca caggtgaatg agtgacttaa 420
 gccgggcgcct aatgctata 439

<210> 9242
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-048-Q1-K1-D10
 <400> 9242

ccagaatgca cccaacaaa cccttgattt ccaaaagggg aatgcaattc ctagcaggaa 60
 agctcttacc atctttaaat ccagcacatt tgaagttgat gttttgtatg tcgaccaga 120
 taactcacia attccacaaa aaataagcac ttacacaatt ggccctttcc aaacctccaa 180
 cggagagaag gccaaactga aagtgaaggt gcgtctcaac atccatggga ccgttacagt 240
 tgattcgggtg ataatgctgg aggaggatgt ggaagttcca gtctcatctg caaatgaagc 300

tccaaacgat actatgaaga tggacacaga tgatgtgcc a g t g a t c c t g c t g c t g g a t c 360
 tgatgtgact atgcaggagc agcctnctgc agctggaaat ggagcacaag ata at g a g g a 420
 aaagtct 427

<210> 9243
 <211> 274
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-048-Q1-K1-D11
 <400> 9243

cccacgcgtc cgcgacgac gacgcccggc ggataagagc gggagcggga g c g a g a g c g a 60
 cgacgatgac tgggtcgaga accagatgct ggctttgctc gacgtggcgg tgccgtaccg 120
 gaagaagagc aggaggctgc cggcttttga ggagatctcg cgagcagaat agcagatggc 180
 tgatatagat tagcagcagc atcatcatct ttcgatcgag ctccatgcat atatcgtttg 240
 agcgagcgcg gatcctctgg acctaactgc agtc 274

<210> 9244
 <211> 440
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-048-Q1-K1-B4
 <400> 9244

cttacttaag acaccaggga aggagcaagt ctaatgtcaa gcaccaa a a c c t a t c t t g c t 60
 agacgctggt gaaatgaagg aaccat at g a t t g g g c g c c t g c a a t t c t t c c a a t t c a g a t 120
 cataagaatc ggccagctgg ctatcttg t g t c c c t g g a g a a t t c a c a a c a a t g g c t g g 180
 caggaggcta cgtgatgccg tcaaagctgt acttacaagt gacaacagtg gtgaatttaa 240
 tacaatcatg gtggtcttgc ggggcctacc aatacatatt cgcaggatat tacaactttt 300
 gaagaatttt aaatccaaag attccaagga acatcgacct tgtattgccc ccaaacccttg 360
 aacgcctacc ttcaagaatt ccagaaactt ggtacaacca ttgtggcaaa caaagaagtt 420
 ccgaccaatt ttcaagcccc 440

<210> 9245
<211> 206
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-A1

<400> 9245

cttttagatt acatatgaga tggcacctcc ttctattgaa cgctgcacgg caagcatcat 60
cagggacaag tttatatatc actgcgatcc ttcctactgc atcacgcatg catccaccaa 120
cttcttatcc actgtgcatg gattaatcaa ctgctgtcga tacttgtata tacacatcaa 180
attttcactc aacacattct acttaa 206

<210> 9246
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-A12

<400> 9246

ctgggtgggg gtattctatc tactatcttt actactataa cacactactt ttaatagttc 60
cagtcgtggt ttttgtgctg cgcgcccca cccgctcgct cgttttccac gctgtgctat 120
ccaggagcgt ccgtccgctc tctgacatcc acaaacta tcctttgagc attacatata 180
tttttgaact gatttagttg tgcattacca ttttattcaa aattttgtat gcggtcgcaa 240
cgcacgggca cttacctagt accttgataa gaccaggaag aggttccttt gggcaagagg 300
agaaaatcca acgagaggga aatgcaaagt cgtccaataa acctcgtgcg gcttaggaat 360
gcttgattca gaaagatttg ctagagcgtt gtgattacgt tggatgtggc tgcaatgggc 420
taaacc 426

<210> 9247
<211> 260
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-A2

<400> 9247

gaacgccatc gagggcatga acggcaagga gtttgactgc cgcaacatca ccgtcaacta 60

ggcggagtg tttttaggtc gtggaggcag cgggtggttg tactgtggtg gtcatttatg 120
 cgtttgatac atgtgtggct gacgccgtga tggcttcatg ctacatactg ctgtggcata 180
 tgctacagtg tctgtgctg ctactgtggt ggtggcagaa gctactgcat tggcaaccgt 240
 ttctactgct actgtaacta 260

<210> 9248
 <211> 457
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-048-Q1-K1-A3
 <400> 9248

gttgaaggcc tgcagcaggg ttattgtgtc atttctagcg ataaaagggt cttggttctg 60
 tatgctttgc taagaaagaa gcggaataag aagataatgg tggtcttctc atcatgtaat 120
 tcagtaaagt tccacgctga acttctgaat ttccttgga tagagtgttc tgatatccat 180
 ggaaaacaga agcaacagaa gcgaactact acattcttta gcttttgcaa ggcagaaaag 240
 ggcattcttat tgtgcactaa tgtggctgcc cgtggacttg atattcctga cgtggattat 300
 atcttgcaat atgaccctcc agatgaacca aaggattaca ttcacagagt tggtcgtacc 360
 gcacgtggtg agaaaagcaa agggaagtgc atntgctgtc ttactaccag aagaactgaa 420
 gtttctattt aacctgaaag cggccaagggt taccctg 457

<210> 9249
 <211> 422
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-048-Q1-K1-A5
 <400> 9249

tccagggtaca cctacgcgta cgcgtcggag ctcttgtccc ctattacttt gattaacaaaa 60
 ctgggtgggg tttggagatc ggtcgtctta ataaacaact cgaagatgct cgtcaaaaag 120
 gcattgatgt tatggccttg gtggttatca atccaggaaa tccgactggg caggttcttg 180
 ctgaagacaa ccaatatgat atagtgaat tctgtaaaaa tgagggcctt gttcttctag 240

ctgatgaggt atatcaagag aacatctatg ttgacaacaa gaaatttaac tctttcaaga 300
agattgcaag atccatggga tacggcgagg atgatctccc tctagtatca tttcagtctg 360
tctccatagg atactatgga cagtgtggta aaagaagacg ttacatggag aatactggct 420
tc' 422

<210> 9250
<211> 212
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-048-Q1-K1-A6
<400> 9250

ggggtctctt tgtcgattca gcccatatat aaagtgtgaa ataaaagccg caggtggagg 60
caggagacct gctgattgag ggaacagttt tgectgtgtt tggttacatg aattatctgt 120
ttcacagatg tgtagagcat ggtgtaaattg cttcatgtgc tggttcgtttc gacaaattga 180
ttatgctgta gcccttcagg tttcatcttg ac 212

<210> 9251
<211> 174
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-048-Q1-K1-A7
<400> 9251

cccacgcgtc cgggagaatt agttgagtta cctgagtaca ggcgagaata aatagatcgg 60
gttgtctcag agaaatgttg taatcattcc taattgtaga gctagagaaa ctctcttttt 120
tttcgatacc catttcgacg gagttactga tccaaagact ggtcttatgc gtcc 174

<210> 9252
<211> 436
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-048-Q1-K1-B1
<400> 9252

gaccaacaag caacatagaa agtggaatcc agtagcaaca acagagcaac aatggcgacc 60

aagagattgt cctccttat gctccttgct ctttctgcat gtgttgctaa cgcgacaatt 120
 ttccctcaat gtcacaagc tcctatagct tcccttcttc ccccatacct tccatcaatg 180
 atagcttcag tatgtgaaaa ccagctctt cagccctata ggctccaaca agcaatcgca 240
 gcaagcaaca tacctttatc acccttggtg tttcaacaat cgccagccct atctttggtg 300
 cagtcattgg taaaaacat cagggcacag cagctgcagc aactcgtgct acctgtgatc 360
 aaccaagtag ctctggcaaa cttttctccc tactctcagc aacaacaatt tcttccattc 420
 aaccaactgt ctacac 436

<210> 9253
 <211> 275
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-B10

<400> 9253

gttggcacat cacctttggg atgtcataac ctccatttct ttccataaga taaatgtgac 60
 cgtccattat attttttatc tggttattag gttcatgttg aaagttgaca tagtgactct 120
 agcgtggagg atgcggctag ttaagatttg gtagctaggt tgttcgtcca tttgcctatt 180
 tattatctca gatcagactt ggtgccgttc cagttgtgca ttgtagcctc tttttaccat 240
 gaaagttagt tcagaagatt cttttatggt gttgc 275

<210> 9254
 <211> 321
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-B11

<400> 9254

accacgcat cgcgccactc gtccgccac gcgtcctttt tatgagtact tgacaaagtg 60
 cggaatgctg catctgatta tgaatgaggc cagtggcaca tgatttcgaa cagcgcaaag 120
 gatcttatat gaaaaatcct atgcctttgt caatcgaaaa aattaaagcc cactttaatt 180
 ttaaagcttc ctggaatatg aaaatataaa ggctacacca ttaaactctg atcccacatg 240
 tcttttttgt acccataaat tattttccat taattaattc aagaaatttg ctctaccagt 300

tattgcttaa cattttttat a

321

<210> 9255

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-B12

<400> 9255

cggacgcgtg ggcagaagca tccgggtcaat ctgctgctgc tcggcctctt caccgtggcc 60

atcagctttg ccgtcggcat gacatgcgct ttcactagcg gaaaaatcat tttggaggct 120

gccattctta cagcagtggg ggtgatcagc ttaactgcgt acactttctg ggctgcaaag 180

aggggtcatg atttcaactt cctcgggtccc ttcctatttg ctgctatcat ggtgctcatg 240

gtgttttcac taatccagat ctttttcccg ctgggtaaga tatctgtgat gatatacggc 300

gggttggcat cgcttatctt ctgtggatac atcatctatg acacggacaa tgtcatcaag 360

cgctacacct acgatgaata catatgggct gctgtttcac tctaccttga cgtcatcaac 420

ctgttcc 427

<210> 9256

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-B2

<400> 9256

agaaaatggc acccaattac tgccctcgag gtgttgtag acttaatggg tcactacgcg 60

aacggtcagt gtagttctat gcatgcatct acaataacag ctgtttaagt tgcacaggcg 120

cgagacaaat ggggtcgtag cgccatcggt ttgttgctgc gtggatcatga tattccatcg 180

gcgaacatcg acaactctgc cagcacatg agtatatttg ttcaaccttt aatgggtggat 240

ctgttttttt agaaatgtgt caagagaagt tgaaaatgat gatactgggc accaaaaactg 300

gattggggta taatttgaat accggttatt ccttgaccaa atgttaacaa ccaaagtttt 360

taagaaactt aaattattta ttccattagc ttgaatcggg caatgggtggg tta 413

<210> 9257

<211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-047-Q1-K1-H9

 <400> 9257

 agagcctcat tcattctccat tcgaaacacc ctgcgaccca cactctccct tcggcccagag 60
 cctaaatccc cgcaacgatg gctcgcacga agcagacggc gcgcaagtcc acgggaggga 120
 agggcccagag gaagcagctg gcgaccaagg cggcgcgcaa gtcggcccct gcgaccggcg 180
 gcgtgaagaa gccgcaccgc ttccgcccgg gcaccgtggc gctgcgcgag atccgcaagt 240
 accagaagag caccgagctt ctcatccgca agctgccctt ccagcgcttg gtccgcgaga 300
 tcgcgcagga cttcaagaac gacctccgct tccagtcctc cgccgtcgcc gcgctgcatg 360

aggccgtcga ggcttacctc gtcggcctgt tcgaggacac caacctc 407

<210> 9258
 <211> 288
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-047-Q1-K1-G2

 <400> 9258

 ctactagct cacatatctt cccttggtca gccatacctg tcaccagtgg tgtcttcaat 60
 gtgcgaaaac acagtcgttt aaccctacag gatccaacac gcaatcgcaa caggcatctt 120
 accatcatca cacttgatcc tcaaacaacc gtcagcccta ttacaagaat aacctttagg 180
 tccatttgac agccacaaaa catcactgca catcaactac aacaacttga gctagcaaac 240
 cttgcttgat actctcacca acatcactgt ctcccaatga accaactg 288

<210> 9259
 <211> 417
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-047-Q1-K1-G4

 <400> 9259

 caaaaagaca ttggagatca acccatagaa ccctatcatg gatgagctcc gcaagcgtgc 60

cgaggctgac aagaatgaca agtcagtcaa ggatctcgtg atgctgctgt tcgagactgc 120
tctcctgacc tccgggttca gcctggatga cccaacacc ttcggcaacc ggatccaccg 180
catgctcaaa ctcggtctga gcatcgatga ggacgagcct gttgaggcag aagccgagat 240
gcctcagctt gaggacgacg ctggtgaaag caagatggag gaggtcgact aagtgtcgca 300
tcgcatgctt gccgtttatc ttatccctag ctaagctacc tgtgatagct taattttcac 360
tattgttcga gggttttggc acgttatcgg ttgtcctgct ggccaggcta taagtct 417

<210> 9260
<211> 416
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-047-Q1-K1-G5

<400> 9260
caagcggatg ctagagatga tcaagatatt gatggagagt gatctcaacc aaaaagggaa 60
aaaaaacaca agaggacact aaagacaaac aggcaagagt accataacgc caaccgagct 120
ctctacagca tgctgaagaa ggagcagcac cagctgacac caccgaagcc atcaaacaaa 180
tgtgaaaaaa tcatcatgca cgacgaactc ataaacaacc aattgctacg acgcgaaccc 240
cgatggatca taagaacaag gacgaacaac aacaatgaag accaaccgcg tgcagcacia 300
cgatgacaag atcaagactc aatgacaaaa gctgccgaac tacaaggact cagcggctag 360
aagcgcacct gtactgcaaa cacatcgaca ggtgcactct gagcaagatg cggaga 416

<210> 9261
<211> 416
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-047-Q1-K1-G7

<400> 9261
gtatgtggaa ccatttggat cctggaagcg tttgtcacat gtttacacgg caccagggga 60
gtcggatgac tacgactcca tcgtgacagg ggcgcagtta catgtgagca gccatgggtt 120
gacgaaggct ctcttccttc gcctccaatt cgccagagtc agcaatgctg cgctcgtcaa 180
gaatcccagag tgggaagggt caccgaattt ggggcagaaa tctggcctca tctcgacgct 240

tatcagcacg catttctcca tggcagctca gaagcctgtc cctcgacctg ctgatgtgaa 300
catcaactcg gctgtgtacc ctggcggtcc gtcaacgcc a gtgcaggcac caaagctact 360
caagtatgtg gacacggcag agatggtgcg eggaccacag gacacgccgg gataact 416

<210> 9262
<211> 386
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3059-047-Q1-K1-G8
<400> 9262

caggatggta aaaaggatat acatttactc ttacgaggag gccaaagtctt tgactcgcaa 60
ggcgaagccg ccggttggtg gtgacaccat caagccagac ccaaacaaat tgccaccgga 120
atctgacgtg ccacatgact canacaacaa tgctcccgtt gctgctgatt atcaggactg 180
atggatgcta actgggctcc tacctnttct tccccctctg ggatgtcggg catggaaggc 240
aatgcacgct ccttgggact ngtaagagtt atctgttttg ttgcttcgcg ggcccaaagg 300
acgcttccct gcaccatctg cctttgtttg gaacggcttg aaccgccgtg gtcctttaac 360
ctgcagcagg gaaaggaatg gctgga 386

<210> 9263
<211> 416
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3059-047-Q1-K1-G9
<400> 9263

gncgcaacta gcaacataga aagcacaata gtgtaccaac aatggcagcc aaaagatttt 60
gctccttat gctccttggt ctttctgcaa gtgctgtac ggcgaccatt ttcccgcaat 120
gctcgcaagc tectatagct tcccttcttc ccccgtaact ctcaccagcg gtgtcttcgg 180
tatgtgaaaa cccaattctt caaccctaca ggatccaaca ggcaatcaca gctggcatct 240
tacctttatc acccttggtc ctccaacaat catcagccct attacatcag ttacctttgg 300
tgcatttatt ggcacaaaac atcagggcac aacaactaca acaacttggt ctagcaaacc 360

ttgctgccta ctctcagcaa cagcagtttc ttccattcaa ccaactagct gcattg 416

<210> 9264

<211> 423

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-047-Q1-K1-H1

<400> 9264

agcgccctnca cgatctcgac gagaggatgc ccaatcgga aaccgccgcc ctattgcaat 60

ggcgcccaag gccgagaaga agcccgccgt cgagaagcct gcggaggagg agccggcggc 120

ggagaaggcc acggctggga agaagcccaa ggctgagaag cggctccccg ccggcaagta 180

cgcaggcaag gaggggtggct agaagaaggg gaagaagaag gcaaacaagt cggaggagac 240

gtacaagatc tacatcttgc aggtgctgaa tcaagtgcac ccagacattg gcctctctgc 300

caaggccatg tccatcatga actccttcat caacgacatc ttcgagaagc tggcggcgga 360

ggcgcccaat ctggcacggg acaacaagaa gcctaccatt acgtccagcg agatccagac 420

ctg 423

<210> 9265

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-H10

<400> 9265

agtaccttta ctttctgaag ttttcaatgg taataagagt cgtgaacaca aacatgaggt 60

ataattgagt tcttgtctga tcttttgagt tgcacttgat cttttgagtt cttgtcttgg 120

ttcgttcttg attcttggac gaggtgggat ttggagagcc aagggcggcg cggcagcagc 180

gggtttctcg gtcggactag attgtttcca tcgagatggg gggcggcgga gggcattcgt 240

cgatggacca ccttggcgcc aaggacctcg agcgcggcga gctgcgccgt ggcgcgctg 300

agtttgcgga cggcgacgat ggagacgggg aagaaagcca gtacttctcg gacgcggagg 360

accggtcgtg gccgtcgac tcgcgcca 388

<210> 9266
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-H11

<400> 9266

ataatgtttg ggctagcaca gccagcggaa acaggaagct ggattctgct taccgtgcgg 60
 ccagagagaa agaagagcat tgcctatatt tcttggtttt ctcggttaat ggaagtggcc 120
 aattctgtgg cgtggctgag atgattggac ctgtcgattt tgacagaagt gttaattact 180
 ggcagcagga taagtggagt ggccagttcc cagtgaagtg gcacataatt aaggatgtac 240
 cgaacaacct tctgcggcac atcattcttg agaacaatga caataagcct gtcacaaata 300
 gcagggacac ccatgaggtg aagctggaac agggcctcca gatgctaacg atcttcaaga 360
 gccatgaggc tgagacaaca attgtggaag atttcgactt ctatgagcag cgggagaaa 419

<210> 9267
 <211> 286
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-047-Q1-K1-H12

<400> 9267

ggataacgtg tagaacgcta gagcgacctt actcgccagg tgcaaggcca actccgaggc 60
 taccctcggc acctacaagg gtgatgctgc nnnnncnnc cnagagcctt cacctcaaag 120
 actacaagta ttgactcgct tctctttgcg acccgttag ttgaaactc ctgcctgcta 180
 atatgttgct gagtgttggt tgcttgtag agcttttata ttcgaacata aaaaaaacat 240
 gcttcctatg tggatgatgg ttatctttat attcgtatat taacta 286

<210> 9268
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-H2

<400> 9268

agccatatcc gaacttatgt ccatcttcct gctcatccgc cttcttatgg agccggccaa 60
gccagggatc gccatgtcgg actcggagga gcaccacttc gaatcgaagg ccgactccag 120
agcgtccaag acctaccctc agaaggctgt caccgtccgt aagaacggct tcatcgatcat 180
caagaaccgc ccctgcaagg atgtggaggt ttctacctca gatactgtta agcatgggtca 240
tgccacatgc cactttgttg ccatagatat attcaacggg aaaaagctcg aagatatgga 300
tccttcgtca cacacctgtg atattccgca tgtgaaccgt actgagtatc atctgattga 360
tatatcatat gatggatttg ggagccttct tacatcagat ggcaacacta aagatgatct 420
ta 422

<210> 9269

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-H3

<400> 9269

cccacgcgtt cgcgacgcg tggtttccaa cctattccca aaggtcccct tccttccgga 60
gggctaggct ggtggtgtca tcaaaaagcc aaaccgttct tgcttgtgct ccaagggtcac 120
caaagaaact gagaagggtg tgtgcatgga gaagggtgtg tatgttgctg agcagtgtaa 180
gaggccattt gagcatggct tccagtgcgg aagctacaag gttccagcaa actgatgata 240
tcgcaagagg gaagcgcttg acgtagtctt tagatttcaa ttgttgcagc cgatcaacct 300
tcttaggggt gtataatatg aagtcaatgt tgagactaat gtgaggtggg agaggcctat 360
tgatgcatca aaagtattat gagctaataa taaagccttc tccacataaa aaaaaaaaaa 420
aaaaagaaga a 431

<210> 9270

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-H5

<400> 9270

gaactatcta tattatatca ttatcaatgt tatgctaaat aaaaaaaaaa aagaagggaa 60

aaaaaaacca aaatcaatac tatcagaaac aacaatatta taacattcaa ccaactgtct 120
acactctacc ctgctgctta ttgcactaa catctactac cattcagcca gtttagctact 180
gcactactct caatatcaac aacttgctgc attcaaccaa ttgaccgcac tgaaccggc 240
tgcttatatg caacagcata tactactaac atctattcag ctagct 286

<210> 9271
<211> 417
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-047-Q1-K1-H6
<400> 9271

aaccatcagg gcacagcagc tgcagcatct cgtgctacct gtgatcaacc aagtagctct 60

ggcaaaccct tctccctact ctccagcaaca acaatttctt ccattcaacc aactgtctac 120
actgaaccct gctgcttatt tgcagcaaca actattacca ttcagccagc tagctactgc 180
ctactctcag caacaacaac ttcttccatt taaccaattg gccgcactga accccgctgc 240
ttatttgagc cagcaaatac tactaccatt tagccagcta gctgcagcaa accgtgcttc 300
cttcttgaca cagcaacagt tgctgccttt ctaccagcag tttgcggcta accccgcaac 360
cctcttataa ctacaacaat tgttgccctt tgtccaactt gctttgacag acccagc 417

<210> 9272
<211> 390
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-047-Q1-K1-H8
<400> 9272

cgtgaaggcg aagatccagg acaaagtagg gcaccccccc agaccagcag cgtctgagct 60
tcgccggcaa gcagctggag gatggccgca ccctagcaga ctacaacatc cagaaggaga 120
gcactctcca cctgggtgctc cgctcccgcg gtggtcagta agccatgggt catttaagct 180
gctgctgtac ctgggtatct gcgtcgtctg gtgccctctg gtgtacctct atatggatgt 240
cgtcgtctaa taaacatctg tggctagtgt gtcatgaatc gtggttggtg cttcgttggt 300
ttaatggacc tgttgtgtcc tctgtgttgt ccccaaaact cttctgcagc agtatggctt 360

gaatccttat gaagtttgat atttgaactt

390

<210> 9273
<211> 313
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-G12

<400> 9273

gatcatgtca aggcttgcc ctgagacggc ctgctcacgg tcaccgtgcc caaggcggag 60
gacaagaagc cctgagtga cgctattgag atatctggtt gagcatgcaa tccaatatgg 120
acgtggaagg aagggtggact gcttgcggtc cgtggctagt gctgtcttgc gtgaagttta 180
ctgtgtcttc tacgatatat aacgtacttc cgtttgtttc gtttcgtatg tacaatcttc 240

cggttatatg aataataaca tataaaatcg ggttctcacg gtcaaaccgt tcagccaaca 300
ggcctgaacc ctt 313

<210> 9274
<211> 233
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-E8

<400> 9274

aaaaaaaaa acaaacact aaaaattaaa aaaaaaaaaa aaaaaataaa aggatagggg 60
aacaaaaaca aaaaaaaaaa aactaaaac aaaaaaaaaa aaaaaaaaaa aaggggtcct 120
ccttttaaat gatccaaact tacctaccga ttctttccaa tctttaaccc ttttattggc 180
tcacctaaat taaattcctg cccccctttt taaaagtca caactttgaa aac 233

<210> 9275
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-F10

<400> 9275

aggccacata tccaaaatac aaatccttgt ctcttccca tagactgcga tctaaggggt 60

ctccgacaat ggatctatct gtagtgaaca ctgcactgtg cgacatgtca tagtcaaaca 120
taacctcgct gtgcgacgaa cgtctgatga agaccgctg ccaagcatcc accaccaacg 180
aatggccgta ctgtatcaac gtgctagtgc acctttacat ctatgacctg aacagtgcgc 240
gatgcttcag gaagacatta tcataggagg tcatagacac tggttggaaa cta 293

<210> 9276

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-F11

<400> 9276

ggaagatgtc gtcggtgttc agcggcgatg agaccgcccc cttcttcggc ttgcttggcg 60

ccgccgccgc tctcgttttc tcatgcatgg gggcggcgta cgggacggcc aagagtggcg 120

tccggcgtggc gtccatgggt gtcatgcgcc cagagctcgt catgaagtcc atcgtgcccc 180

tggtcatggc tgggtgtgctc ggtatctacg gcctcatcat cgccgtcatc atcagcactg 240

ggatcaaccc caaggccaag ccatactacc tctttgacgg ctatgcccac ctgtcgtccg 300

gccttgccctg tggctcttgct gggcttgctg caggcatggc cattggcatc gttggtgatg 360

ctggtgtcag ggcgaacgct cagcagccaa agctgtttgt gggcatgatc ct 412

<210> 9277

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-F12

<400> 9277

caagaagtga cgttgcatct gcctcaacta gcaatcctgc ttcatatggt tcggccaggt 60

cacagaaaca gttgtctctt ccagcaaaag ctggacaaac ttcctcagcg ggtactatga 120

atgaagcaga tggaactaga aatgcataca acgcaaattg aaaccagtca gcaagatatg 180

cagccaacac tcagagcatt cctgcaaacg tcggcatgca atacgacggg agtgcagtgt 240

cgcctgaaat ccagtttagt ggttcatccc ttcagagtca gtcttcaaga gggccaaca 300

tgctagcatt gggccctccg catcaacatc aaagtttcga attcccagcg ctcggccagc 360

ccgttcagcc aacaggcctg aaccctttcg aagagtggcc gcagcagcag gagaaccgtg 420
gc 422

<210> 9278
<211> 433
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-047-Q1-K1-F2

<400> 9278

ccggattccg gtcgaccagc gtcgtgctcc aggtcaatat tcacatntct tcacaagtcc 60
taagggtctg acaccactgt caggctatag gctcaacagc gatgcggcga gcgtgttaca 120
acaaccaatt gcccaattgc aacaacaatc cttggcacat ctaacaattc aaaccatcgc 180
aacggaacag caacaacagg ttctaacacg gcttagccca ctataccatg gagaaccctg 240
tcgctaactg gaaacagaat ctgcttgcat ccaaccact tgctatagca aacgtagtgtg 300
caaaccagca acaacaacaa ctgcaacagt ttctgccagc gcttagtcaa ctagccatgg 360
tgaaccctgc cgtctaccta caacagcaac aactgctttc atctagcccg ctcgctgtgg 420
ccaatgcacc tac 433

<210> 9279
<211> 246
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-F3

<400> 9279

aaatctgcat aatacgtgct gatacagcag ctagaagcag attcgttcca acacagggag 60
cggtaacta tgcaatcgtc atagattgga tacgggatgg caattatcag aaagcagctt 120
gctatttgcg aaatgctgca tcgaagcgat ccgcatatat caatacagac gatataagcg 180
gataccaaaa gcatgttaat acattcactg atccagctag ctatgattaa catcatctac 240
cactta 246

<210> 9280
<211> 423

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-047-Q1-K1-F5
 <400> 9280

gaaacggatg gacaagtata tttggagttt gatgtggtgt ttccggatcg tgtgtgggtc 60
 tcagatgcag gtgggcgctg tgggcgggag gcaggtgtac cagaacgtcc tccacgctat 120
 ctactgcac ctcaagaagg agggcgccg cggcctgtac cgaggtctcg gccctagctg 180
 catcaagctc atgcccgcg cgggcatcgc cttcatgtgc tacgaggcgt gcaagaagat 240
 cctcgtcgac aaggaggatg aggaggagga ggacgaagcc ggcgggcgag aggatgacaa 300
 gaaaaagggtt gaatgatcaa agttcttggc caagaaggta gcaatgtcgt gaagcgtacg 360
 tgaactggaa acggatggac aagtatattt ggagtttgat gtggtgtttc cggatcgtgt 420
 gtt 423

<210> 9281
 <211> 416
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-047-Q1-K1-F6
 <400> 9281

caccggcctt gtctgcctgg agctttacaa agtccttgct ggtgggcaca aggttgaaga 60
 ctaccggaac acatttgca acctggcgat cccctcttc tccatggcgg agcctgtgcc 120
 acccaagacc atcaagcacc aagacatgtc ctggaccgtg tgggaccgct ggacggtaac 180
 tggcaacatg acgtgaggg agtcctgga gtggctgaag gagaagggct tgaatgcgta 240
 cagcatatca tgcgggacct cgatgctgta caactccatg ttcccgagac acaaggagcg 300
 gctggacaag aaagtgggtg atgtggccag ggaagtggcc aaattggagg tgccttacta 360
 ccgncgncat ctggacgttg ttgtggcctg tgaggacgac gacgacaatg acgtcg 416

<210> 9282
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-F7

<400> 9282

gtggctgtta atgttgccct gtcactgaga tatgagatca acaggggctt tgctacgtta 60
agggagattg ggcattggccg tgatctgaag aaattcctaa ttgttattgc aggtctcttg 120
cttctttcag ttctcgggag ctgctgcaac ttctgacac tgttctatat tgtctttgtg 180
gcactgtaca ctgtaccagt tctgtatgag aaatatgagg acaagggtga tgcttttggc 240
gagaaggcta tgactgaact gaagaagtat tatgccattt tcgatgagaa gtgcctatcg 300
aagattccaa agggccccct taaggataag aagcactaga ttggtagtaa ggtatttgct 360
atgaatcaac atctacatta tgtcactagc tgtcacctct ttctctgaag gatgggtgctt 420
g 421

<210> 9283

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-F8

<400> 9283

cacaatggca ccagaaacga tgctcttcgg cgtctgtgcc gtgctgatgg tggtcggcgt 60
cacgaacgcg gcggagggcc aggtggcgtc agtcgtcttg ggccctggcga ggtgcgccga 120
ctgcacgagg aagaacatga aggctgaggc cggtttcaag ggtcttcagg tggcgatcaa 180
gtgcaagaac agcaacggcg agtacgagac aaaggccgtg agtgagatcc aaagctccgg 240
agccttcagc gtccactcg ccgtcgacct ccacggcgcc gactgccacg cgcagctcca 300
cagcgccgcc aataacgcgc cttgccctgg gcaggagccg tacaggatcg cgcccatgct 360
atggcgacc ttctgcgcg tgccctggcaa gatgcactac ccgtccgcgg agtgcg 416

<210> 9284

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-F9

<400> 9284

aggacgcgtg ggcgatcaaa ctctactagc gagaaagccc ggagccgaga ggccaggggg 60
ccatggcgct gcatgccctg cacaacgaga tccggagcat gaaggccgc gacgtgccgg 120
attacctgaa gccgcgcttg acctgagaca acgtcaacaa gagegcctac caggccgtcg 180
accgctacat ggagaagtac atcgacacga gctcgccgga cctctatac cacgtctgca 240
tcaaaaggat gatctttctcc tacttagtca atctgccctg ggagcgcgcc cacctagccc 300
acctcgagga gatggagacg accggtggga agctctagat ccgttgaccc gttcctagcc 360
ggcagcgcaa tacgacggtt gactctcatg gagtccattc atgctgatgg c 411

<210> 9285
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-G1

<400> 9285

caactagcaa catagaaagc acaatagtgt accatcaatg gccgccaaaa tattttgctt 60
ccttatgctc cttggtcttt ctgcaagtgt tgctaccgca accattttcc cacaatgctc 120
acaagctcct atagcttccc ttcttcccc atacctctca ccagcgggtgt cttcagtgtg 180
tgaaaaccca attgttcaac cctacaggat ccaacaggca atcgcaacag gcatcttacc 240
attatcacc cttgttctcc aacaaccgct agccctatta caagagttac ctttgggtcca 300
tttgggtggc caaaacatca cggcacatca actacaacaa cttgtgctag caaaccttgc 360
tgcatactct cagcaacatc agtttcttcc attcaaccaa ctggctgcat tgaactctgc 420
tgcttat 427

<210> 9286
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-G11

<400> 9286

cacctttttc cactgcttgc cagaaatgat agcgtttgcg gttcagaggg ttctccagca 60
cagcggttgt tatcatgcag cttttgctct gggcccttga ttctgcctgc gagttggtga 120

aatcgccctg atacttccgt gctcttatat acatttcgat aatagttttg gttttctgac 180
atctactgta aggtgacctg ttgctgggtt gttggttatc tgaatattaa ttgtaagagg 240
ccacttagtc tgttatagct ggtggatcgc ctttttcaaa tatatatattt tttgttttgc 300
actgaaaaaa aaaaaacaaa caaaaaaaaaa aaaaaccaca aaaaaacaag gaataatcac 360
aaaaaca 367

<210> 9287
<211> 416
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-047-Q1-K1-D11
<400> 9287

gcattcagaa acacaccacg cgaagctcat tatcaacaac ctaacatcaa tggctaccag 60
agtatattat ccttccttgc gctatttgcg ctttttgcga gcgcaacaaa tgcgttcatt 120
attccacatt gtcacttgc tccaagttcc attattacac agtatgctac atcagggtact 180
tcaatgggct tcgaacaccc agctgtgcaa gcctataggc tacaacaagc aattgcggcg 240
agcgtcttac atcatccaat ttcccagttg caacaacaat ccttggcaca tctaacaata 300
catactatcg aaacgcaaca gctacaacaa tttctaccag ctctgagcca cctagccatg 360
gtgaacactg gcgactactt gcaacagcag atgcttgcac catacccact tgctct 416

<210> 9288
<211> 422
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-047-Q1-K1-D12
<400> 9288

cggacgcgtg gggagttgat gtcgaagcta ccatggctcat tggcgaagac gagattgagg 60
gtgccaaatg gacaatggat aatgtcaaat tttctgtcaa agaaccaatc gaggcggttg 120
caacaaaaga agaactagag caccttgtga tgctttgcag atctgaggct gatgcaatgg 180
ggaggatcac tgctggaatt cttcgtctcc ttaaacttga caaatctctt gggcaaggaa 240
ctatagaaca actacgtaac ctaggaagtg gaggcattga caatatcttt tcaccagga 300

ggctcagcag gcagaacagt tttggtagca taggcactcc tcggactcca actatgcaag 360
ccattgcaga cgtcattgggt tcgaaaacca cactggaagc aactatttcc tcattacaag 420
gc 422

<210> 9289
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-D2

<400> 9289

attgatacca aactgcctcc ttaaaaggcc cattgtgtcc cacattgcac ttaggtatgt 60
gcctcctatc ctcttggcct tctgcagtgc tgctacagcg accatgtttc cacattgctc 120

acaagctcct atagcttccc ttcttacacc gtacctctca ccaacgggtgt cttcgggtatg 180
tgaaaaccca attcttcaac cctacatgat ccaacaggca atcgcagctg gcattcttacc 240
tttatcacc ttgttcctcc aacaatcctc agccctatta cagcagttac cttagggtgca 300
tttattggca caaaacatca gggcacaaca actacaacaa cttgtgctag caaaccttgc 360
tgtctactct cagcaacagc agttttcttc attcaaccaa ctagctgcat tgaactctg 419

<210> 9290
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-D4

<400> 9290

cgacggcccc gccggttccg ccgggggttaa cccaataag atcgccaagc tcttcgggaa 60
gctgttcggc cagccctcgg cgtcgctggg gccgtcggcc gaccccgcg agaccaggcc 120
gctaaaggtc ggtgtcgagc tctctggtgg acaagcgccc ggtgggcaca atgtcatctg 180
cggcatcttt gattacctac aggagcgtgc aaaaggtagc accttgcttg gactcaaggg 240
acgccctgct gggatcatga agtgcaaata cgtggagctc acttcagact ttgcgtatcc 300
ctacagaaac cagggcggat tcgatatgat ctgcagtgga agggacacga ttgatacacc 360
ggagcagttc aagcaagctg aagacacagc caacaagctt gattcggat 409

<210> 9291
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-D5

<400> 9291

cccacgcgtc cggaaggggc gaggcagcca aacgaatccc agcacctgcc tctcctttgc 60
ttgcgcagat ctagcgatgg cggcggggcg tgagttggcg tggggggagg agcccgtggc 120
gcggcgccgg cctaagacca agatcgtctg cacgctcggc ccggcgtcgc gatccgtcga 180
gatgatctcg cgctgctgc gcgcgggat gtgcgtcgcg cgcttcaact tctcccatgg 240
ctcccacgag taccaccagg agaogctcga caacctgcac gccgccatgg agctcaccgg 300
gacccctctgc gccgttatgc tcgacaccaa gggccagag attagaactg gatttttgaa 360
agatgggaag cctattcaat tgataaaagg ccaagaaatc acaatttcta cagactatag 420
cat 423

<210> 9292
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-D6

<400> 9292

ctcgtagaga gaaggaaaaa tatccccaaa ccctagctcc cgatctcgat ggcgaaccct 60
cgcgtcttct tcgacatgac cgtcggcggc gccccggcgg gccggatcgt gatggagctg 120
tacgccaacg aggtgcccac gaccgcggag aacttccgcg cgctgtgcac gggcgagaag 180
ggcgtgggca agtccgggaa gccgctccac tacaagggtt ccaccttcca ccgctcatc 240
cccagattca tgtgccaggg cggcgacttc acccgcgga acggcaccgg cggcgagtcc 300
atctacggcg agaagttccc cgacgagaag ttcgtgcgca agcacaccgt ccccggtgtg 360
ctctccatgg ccaacgccgg gcccaacacc aacggctccc agttcttcat ctgcaccgtc 420
gcg 423

<210> 9293

<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-D9

<400> 9293

ccgactcgta cggagcggat taticctacca ctacggttcg ggttcggatt cgggagggtc 60
atcctcgttc ggcttcgtgg gtgagcggat cgagatggca tgcgtccgat gttgagtacc 120
gctgctacat ctgcggtctc tcttgggcca ctgacgacca ctgcgtccac aacgccttca 180
gcacctacgg cgaggctcta gagtacaaga tcatcctcga tcggtagact cagacgtcca 240
gcagcttcgg ctttgtcacc ttcttcacgg atgaggcgat gcggaacgcc atcgcaggca 300
tgaacggaaa ggatctggac ggacgaacca tcaccgctaa cgatgcccaa tcccgtgctg 360

gactctgagg cagaacaggt ggggt 384

<210> 9294
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-E10

<400> 9294

gcaacagttc actaagagca gcgataggag agagaccgga ttcaatctcg cagatgaggt 60
ccgtagcgtc cagcccagag ctagaaaaca gtgcagaagt tgtggaggat acggtgacag 120
ctatccttaa tctctctatc cacgagagca acaagaagat cattggagac gacccactgg 180
cagtcccggt cctgatcaag gccttacagt caggaagcat ggaggcccgg agcaacgccg 240
ccgccgccat cttcagccta tccgcgctgg acggcaacaa ggcgaggatc ggcgagctcg 300
gcgcgatgag gccgctggtg gagctcctcg agcacggcag cacggcagcg aggaaagacg 360
cggcctcggc catcttcaac ctgtgcacgc tgcacgagaa caagtcgctg gccaccaaga 420
gcgg 424

<210> 9295
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-E12

<400> 9295

aagggcacca gccggtgttg gtttcagctt gtattccac tctgtcgac agcgtcgcc 60
gtcgccgctg agatcctagg aagaaatgga gctctctgc aagctcttca cggccgtcct 120
cctcgatg ctgctgtgc tgtccgcaga ggtcgggccc gtggcggtgg cggaggcgcg 180
gacgtgccag tcgcagagcc acaggttccg gggcccctgc ctccgccgtt ccaactgcgc 240
caacgtctgc aggaccgagg ggttccccgg cggcaggtgc cggggttcc gccgccgctg 300
cttctgcacc acgactgcc actgattgc tcgcccagcg gccggctggc gtcgccgctg 360
atcgctgc gaccagtcca tggctccatg catgaataac aagggtgtgc gcggtttgtg 420
ttgt 424

<210> 9296

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-E4

<400> 9296

ctgggttcct cgcgggacca acgggccaac cccctctcc cttccttaac tccttggggg 60
ggctcctgc cggcggtccc cggccgcc cgtcgccacg tcttctccgc tgacgtgggc 120
tcaccaggtt caaggcaata tctgtgttaa tcttggggac cttcagtaga ttgctgagag 180
ttctccttga tacaggggaa taaagatcca aataagtttt tgacattgat ctgtagccag 240
tactgcaatg gctacgaagc ttgtggttct cggtatcccc tgggatgttg aactgaagg 300
gttactagag tacatggcca agtttggacc cctagacgat tgtgtcgta tg 352

<210> 9297

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-E5

<400> 9297

cggacgcgtg cgtacaacct gctgacgatg cccagccggg gacggcatgg gccgcgcaag 60

ttctctcgag gtagcgggga tcgccactca actgcctcgt tggggtcagg ctctgattcg 120
 gaccccgga agcgggttcca cgttgcgctt accgctacgg acgcactgta cagtcagtgg 180
 cagtcgcgga taatgcacta ctgctataag gagatgaggg accgacctgt ttccgacatg 240
 ggtggattca ctaggatcct tgactctggc aagcctgatg gattgatgga tgagataccc 300
 accatggtgg gtgatccctt tcctgaacgc aaggatcaag gatataattgt cttaaataagg 360
 ccttgggctt ttgtccagtg gatccagagc gcaaagatcg cagaagagtc tatatttatg 420
 gc 422

<210> 9298
 <211> 482
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-047-Q1-K1-E6

<400> 9298
 aattccccggg ntcgactcca cgtcgtctcg tcccacgtcg tctcgcgtga cgtcgtgagg 60
 gctatgagtc tcgtaccggc agttgtctaa gggacgtgag agacgggctaa ccgtacaaag 120
 tcttcgatct gtccctcgct tatttcggca aaccatgttc gtctgcccga gggagtatct 180
 ctcgtcgcct aggtttctga gcgtaagtgc gcgtggatgg atgcatctg aatgtttctc 240
 tgaatggtag aaaatcatca agaagcccag tggctctaaa gttcccatgc ataccttcaa 300
 tggatctcac ataagggaacc agtcaactta aaggatgcct gtgccgtcat tgcacggaac 360
 taggaagtct cnttccgtat tattgaatgg aaccccaact gctnnngcat cgcttgcccc 420
 ctatggtntt tcgagtaaga caaaataact ggaaacgata ttctaagtgt ttagactttg 480
 gg 482

<210> 9299
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-B5

<400> 9299
 gcaacataga aagcacaata ttgtaccaac aatggcagcc aaaatatattt gcctccttat 60

gctccttggt atttctgcaa gtgctgctac tgcgaccatt ttcccgaat gtcacaagc 120
tcctatagct tcccttcttc ccccgtagct gtcaccagcg gagtcttagg tatgtgaaaa 180
cccaattctt caaccctaca ggatccaaca ggcaatcgca gctggcatct tacctttatc 240
acccttggtc ctccaacaat catcagccct attacagcag ttacctttgg tgcatttatt 300
ggcacaaaac atcagggcac aacaactaca acaacttggt ctagcaaacc ttgctgccta 360
ctctcagcaa cagcagtttc ttccattcaa ccaactagct gcattgaact ctgcttctta 420
t 421

<210> 9300

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-B6

<400> 9300

cccactcgtc cgcccaaaca agtatacatc taagatgctc ctggctgcaa ttgatgagct 60
tcacagagga acttatgact ttttctacct gccaatgat ttcaagaaca aatgcaatgt 120
tggatacgcg ttcattaaca tgatatcgcc ggtgcatatt ataccttct accaggcttt 180
taatggtaag aaatgggaaa agttcaacag cgagaaggta gcctcgttgg cttatgctag 240
aattcaagga cggctctgcac tgatatacaca ttttcaaaat tcaagtttga tgaatgagga 300
taagaggtgc cgccccattc tttttaatcc caatggtcag gagtctgtgc accaggaagc 360
atttccaatc aatggcatat gcatccacat gcttccggaa gatgattacc ttgacaatga 420
agat 424

<210> 9301

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-B7

<400> 9301

ctctcaccaa cagcagttcc ttccattcaa ccaactggct gcattgaact ctgctgcgca 60
tttgcaacaa catctaccat tcagtcagct agctgctgcc taccgcgagc aatttcttgc 120

attcaaccaa ctggcagcat tgaactctgc tgcttattta caacagcaac agctaccacc 180
 attcagccag ctagctgatg tgagccctgt tgccttcttg acacaacaac agttgttgcc 240
 gttctacctg cacgctgcgc ctaacgctgg caccctctta caactgcaac aattgctgcc 300
 attcaaccaa cttgctttga caaacccaac aacgttctac caacaacca tcattggcgg 360
 tgccctcttt tagattgctt atgagttata gctcaataat gaagatttcc ggatgatgta 420
 tgag 424

<210> 9302
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-B9

<400> 9302

agatgagctt gtttttgttc tagcagcaac aaatctacca tgggaattgg atgcagcagt 60
 gctgcgtcgg ctggagaagc gtattcttgt tccattgcca gagccggatg ctagacatgc 120
 tatgtttgaa gagctcctgc catatacacc tggcacaatg gagatgccct atgatgttct 180
 tgtggagaaa actgaagggt attctggctc tgatattcgc ctggtatgca aggaagcatc 240
 aatgcagccc ctaagacggg taatggcagt tcttgaaggc aggaaagaag aggtccctga 300
 gggtgagttg cctgaagttg gccagtaac tacagaagat attgaacttg ctttgaggaa 360
 tacaagaccg tttgcacatc ttcatgcaca tagatacgaa aagttcaacc a 411

<210> 9303
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-C1

<400> 9303

ggattcgaaa tatttgccggc gacacacata gtggtcagct agaagctggc cattatgtga 60
 catatctgag gctaaacaat cattggtaca aatgtgatga tgcttgggta accagagttg 120
 atgagcatat cgtcaggact tctgacgcat acatgctctt ctacgtgcag aagacgttct 180
 actacaaagc ttgcgaaaga gcagccacag tctgatctga agcagacatt gatgacacaa 240

cttcagacca ccataaattt atttgtcacc gaatcagata cacatgtagt aagtagttcg 300
tcaatcaaga aggaaaacgg gcgccgtatt cacagcagca taagcatggc ctgttaaata 360
ttttcgttgt acactgacct atagttccaa tcagagagaa gctttttcgg cggattttgt 420
cttta 425

<210> 9304
<211> 420
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3059-047-Q1-K1-C10
<400> 9304

ggagctctgg gcagcgtgcg cacgtggtgt acctagctcg ctctgctagc ctaccatggc 60
tgatcaccac cgggtgcgca cgggaggtgg cgggtggctac ggcgacctcc agcgcggggg 120
cgcatgcac ggcgaggcgc agcagcagca gaagcagggc gccatgatga cggcgctcaa 180
ggccgcgacg gccgcgacct tcggcgggtc gatgctggtg ctgtccgggc tgatcctggc 240
cggcaccgtg atcgcgctca cgggtggccac ccccgctgctg gtgatcttca gcccggtgct 300
ggntgcggcc gccatcgcg cggcgctcat ggccggccggg ttcgtcacct ccggcggcct 360
cggcgctcgt gcgctgtccg tgttctcctg gatgtacaag tacctgacgg gcaagcacc 420

<210> 9305
<211> 412
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3059-047-Q1-K1-C11
<400> 9305

ccgcgtccag tgtgtccgt actccgctcc cctcagtc ttagttctc acgtagcgg 60
agcgtgcgcg cgggagacgt agatggcggc ttcggaggcg gcagcggcgg cggcaacacc 120
ggtgacgccg acagagggga cggtgatcgc gatccacagc ctggaggagt ggagcatcca 180
gatcgaggag gccaacagcg ccaagaagct ggtggtgatt gacttcactg caacatggtg 240
tcctccgtgc cgcgccatgg ctccaatttt tgetgatatg gccagaagt ccccaaatgt 300

tgttttcctg aaagttgatg tggatgaaat gaagaccatt gctgagcaat tcagcgtaga 360
ggccatgccca acattcctgt tcatgangga gggcgacgtc aaggacaggg tc 412

<210> 9306
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-C12

<400> 9306

aggcatctca ctggagagtt tgagaagaaa tatgaaccaa ccattggtgt ggaagttgat 60
ccgttggtatt tcaccactaa ctgtggtaag atcaggttct actgctggga taccgcaggg 120

caagagaagt ttggtggcct cagggatgga tactatatcc atggccagtg tgcgatcate 180

atgtttgatg taacctcaag gcttacttac aagaatgttc ctacgtggca tagggacctg 240

tgcagggctct gtgaaaacat cccattgtc ctctgcggtg ataaggttga tgtgaagaac 300

aggcaggtca aagccaagca ggttactttc cacaggaaga agaatctgca gtactatgaa 360

atttctgccca agagcaacta caactttgag aaacctttcc tgtacctgc aaggaagctg 420

<210> 9307
<211> 264
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-047-Q1-K1-C3

<400> 9307

ctctgcagcg atggcgatca agcggactaa ggccggaaaa aagaatggtt ccaccagaaa 60

ctgttcaacc ctgctcgatt agtccacaaa gtggctaata gcctggccga caacgtcggg 120

tccaaacagc ttcaggacat tcgccggggc ctcaagggcg actcgggtggg gctcatgggg 180

aagaacacgc tcattaggcg ttggatcaaa gtgtacgccg agaagaccgg taaccacacc 240

tttgaccgc tcattggacct tctg 264

<210> 9308
<211> 251
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-C5

<400> 9308

cggacgcgtg ggggaggagc gctggtaccg gcgtaactcc gggcccatcg gtcgggaggt 60
cagtcaaccg cgctccccgg cccccagtgg ctgtagaac attcgagaac ccctcgcttc 120
ctcccccaac gataaaatcc tcaccgcgcc gcaacgcattg ttgccccac aaaccctcgt 180
ctcgtgccac tttctcagtc ccctctagcc ggcgcctacc gtcgcgctc tcctcgcgtt 240
cgggaaggtc g 251

<210> 9309

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-C6

<400> 9309

cccacgcgtc cgcgtaactc agactgacac agctcaagat aaagttggac tccatattaa 60
ttgttactta catattatca tcttcttttt ccccaaaaaa ttcttactag aatactaaga 120
ccatttctac acagcaatca cataaagttg gatccatcat caacaatgat ttacaaaact 180
ctcttgaatc acctgcaaag gttcttatta tacatctgca attgaattat ctaaaattaa 240
aacatagaat tcaattatgt tcgttggtta caggttgaaa caacaacttt tgaagactgg 300
ccatgaatat ctagatagta ctacaccatc tacataattt gtaatcaata taatttgcac 360
attattcatc ggacaccttt ataaccatag cacatcatga cagtagctca caggctc 417

<210> 9310

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-C7

<400> 9310

ggataaaaga cccgctcctg tcccgcaggc aactgagcgc cggccccgcc gcccgggcac 60
cagccgccgc cgcaccgtca ccgcgcgacc tcccttcttc gccgcaaacc gctctgggag 120

cttgaagatg gcggtgccgc tgttgactca gaagatcgtg aagaagcggg tcaagcagtt 180
 caagaggccc cacctcgacc gctacaagtg cctcaagcca agctggcgca ggcccaaggg 240
 tatcgactcc cgtgtcaggc ggaagttcaa gggatgcacc ttgatgccta acattggata 300
 tggctctgac aagaagacca agcactacct cccaacaag gttaagaagt ttgtcgtgca 360
 caatgtttct gagctggagt tgcttatgat gcacaacagg acatactgcg ctgaaatcgc 420
 acac 424

<210> 9311
 <211> 423
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-047-Q1-K1-C8

<400> 9311
 atctgatgta ctttggctat acatcatgcc cagatgtggg tccagctgaa gttcagaaga 60
 tagctgatgt tgttaaactg ttagagtcaa agtacgatat caatattaca ccactctttg 120
 tcacaattga tccacaacgt gattcacctg ctcagcttaa ggcatacctt actgagtttg 180
 acccaagaat agtaggacta acagggtcca tcagtgcagt aagacagata gctcaggagt 240
 accgtgtttt ctttaaaaga gtagaggaag ttggtcagga ctatcttata gaaagctctc 300
 acaatatgta cttgctagat ccatgcttgg agacagtaag gtgctttgga agtgagtacg 360
 aggcatacaga ccttgctgag gctataacaa cagaggttca gaaagcatct gcctcatcaa 420
 caa 423

<210> 9312
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-047-Q1-K1-B3

<400> 9312
 atgattttgc aaggacagga agtactgcta tcgatacggg tggacttaag gaaggccttt 60
 gggacagttc acacatgaaa tgggacccat ttctacgcaa gcaaggactt ccagttcgct 120
 tgaacaaagg tgttgtagag ttggttgag accatgtagt ttgtgaggaa ggaaagcccc 180

tttcgccaga agcagcgcag actctgcggc tgcttgggat acaaattggcg acattccgctc 240
 tataccttgt gtgtcgctgg tcgggcgatg actttgaagt ttacaaagaa agcttgatgc 300
 acctaagaac tgatgaatcc tcttaagctt ttgtttcctg tatacacaaa aggctcactt 360
 gctgtctttg ctgggacagc ttttggtaac tgtgcgtgtg gccatgtacc caggagtatt 420
 ggaagtt 427

<210> 9313
 <211> 434
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-047-Q1-K1-A1
 <400> 9313

cccacgcgtc cgcccacgcg tccggggagt tgttcagttt ggtactgtgg acatagaatc 60
 tgatggctta agtgatcacc ttagtggtct tgctgattca ttaaataaag caaggattca 120
 tatctgtcca ccagtgaaaa agccatctaa actcggtgaa agtctcatta gtttggtgc 180
 aatagtggag aatgaacata agaggctgct tgcaaggaag tccatcattg aaaaacgtaa 240
 agaagagctt gagcgtcaaa tattggagaa ggaaaaagaa gaagaaaaaa agagaatgag 300
 cagtcaaaag aaaactgcgg atgaagaaag ggtgaagctt ctcaatgaac agaggcagag 360
 ggagcaggac cggattcgta gagagataga ggaaaaaat aaagcagaag caaaaaagtt 420
 gctagaagat ttga 434

<210> 9314
 <211> 418
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-047-Q1-K1-A10
 <400> 9314

attattttaga ccaactagca acatagatag cacaatagtg taccaacaat ggcagccgga 60
 atattttgcc tccttatgct ccttggtatt tctgcaagtg ctgctacggc gaccattttc 120
 ccgcaatgct cacaagctcc tatagcttcc cttcttcccc cgtacctctc accagcgggtg 180
 tcttcggtat gtgaaaaccc aattcttcaa ccctacagga tccaacaggc aatcgagct 240

ggcatcttac ctttatcacc cttgttcctc caacaatcat cagccctatt acagcagtta 300
 cctttggtgc atttattggc acaaaacatc agggcacaac aactacaaca acttgtgcta 360
 gcaaaccttg ctgcctactc tcagcaacag cagtttcttc cattcaacca actagctg 418

<210> 9315
 <211> 181
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-A11

<400> 9315

ctcttacaac tacaacaatt gttgcccttt gtccaacttg ctttgacaga cccagcgggc 60
 tcctaccaac aacacatcat tgggtggtgcc ctcttttaga ttgcttatta gttgtaattc 120
 aataataaag ttttttggat gatgtatgtg gccaacccaga aataagaagt tacatttcca 180
 g 181

<210> 9316
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-A12

<400> 9316

caacaagcaa catagaaagt ggaatccagt agcaacaata gagcaacaat ggcgaccaag 60
 atattttccc tccttatgct cttgctctt tctacatgtg ttgctaacgc gacaattttc 120
 cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaattata 180
 gcttcaatat gtgaaaaccc agctcttcaa ccatataggc ttcaacaagc aatcgcagca 240
 agcaacatac ctttatcgcc cttgttggtt caacaatcgc cagccctatc tttggtgcag 300
 tcattggtac aaaccatcag ggcacaacag ctgcagcaac tcgtgctacc tctgatcaac 360
 caagtagctc tggcaaacct ttctccctac tctcagcaac aacaatttct tccattc 417

<210> 9317
 <211> 225
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-A3

<400> 9317

ggagattaag gagttccaaa agttcaatgg accggttatt ccctttgggc ctttggttcg 60
ggttgatgaag gaggtaacca atttcgttac aaacgggaaa gtatagcgct ataccgcaaa 120
agcccttctt gcgcttcaag aagcaacaga attccacttg atagaactgg ttgaaatggc 180
gaatctgggt gccattcatg ccagcgtgtc acaattatgc aaaag 225

<210> 9318

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-A4

<400> 9318

cgtttcgcgt tcgcctcagc ccgccgaag gagaggttaag ttcaggagac atcttcgaga 60
agctgaaatg gctcctaaag ctgctcctgc caagaagggt gatgccaaga cccatgcctt 120
gaaggttgcc aaggctgtga agtctggggc agccaagaag aagaccaaga agatccgcac 180
gtctgtgaca tttcaccgcc ccacgaccct gaagaaggct agggacccca agtaccacg 240
aatcagcact accggaagga acaagcttga tcagtaccaa attctcaagt acccccttac 300
cacagaatca gcgatgaaga agattgaaga tcacaacact ctggtcttca ttgttgacct 360
caaggcagac aagaagaaga tcaaggctgc cgtcaagaag atgtatgaca t 411

<210> 9319

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-A5

<400> 9319

atgggcttcc gtggtgagcg tgaccaagg gaccgtgtga aatatgagtg gtctgccact 60
gatgactacg ttcagaggga gcgcccataat gatggttatc ttgacaggag tcggcgctcg 120
tcaggatctc ctctgtgtaa ctggggaaat gatctgcgtg acagaagccg ctctcctgca 180
cggaacaggc ctatgaagag ttccttcacc ggaagaggtc gacctgacga ctatgctgct 240

gatccatatg gcagccgagg gagaccaat ggtatggagg ccggccgtgg gcgtgggcat 300
gcttacagag caagcagtgg tccgtaccct ggtgagactc gaggtgacca acgcgctgct 360
ccacgcgcta ggaacgagga tggctattag atcttcatga agctgagtga cgtcattttg 420
tctttt 425

<210> 9320
<211> 406
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-047-Q1-K1-A6
<400> 9320

cggaacgcgtg ggggtttttca ggttgtgcta actccacac atttggccat agttatggaa 60
tatgctgctg gtggtgagct atttgaaagg atctgtaatg ctggaagatt tagtgaggat 120
gaggcgagat ttttcttcca acaactgatt tcaggagtta gttattgcca ctcaatgcaa 180
atatgccata gagatttgaa actagaaaac actctcctgg atgatagtat agcacctcgg 240
ctaaagatat gtgattttgg ttactccaag tcctctgtgc tgcactctca accaaaatca 300
actgtcggga caccagctta cattgctcct gaggtccttg ctagaaagga atatgatgga 360
aaggtcgccg atgtttgggc atgtggagtt actctgtatg tgatgc 406

<210> 9321
<211> 426
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-047-Q1-K1-A7
<400> 9321

cggaacgcgtg ggcagggccc tgttctctca tctctcactc cctcgctccg tgtacgggggt 60
accaccacgt gctcctcgt cgacgatctc gtagcggcgg cgcacatggc gagcgacggc 120
ggggcggcta cgccagcgaa ggttacccta aagaaggcca atctcctcga cccgcactcc 180
atcaagcacc ttctcgacga gaccatctcc gaagtcgtga agagtaaggg ctacaccgag 240
gacacgcggc tgggcaactg gaagctgggg atcggagcct gcgtgattgc tgtcgccctc 300
ctcgctcagt ttaccccaa gaagttgccg cagaaccgcg atttcctcct tggctgcac 360

gccctgtatg tgggtgctgaa tgtggtgctg ctgatacctta gctacaccaa ggagaaggat 420
 gccatc 426

<210> 9322
 <211> 431
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-047-Q1-K1-B1

<400> 9322

gcaattagct catcgaactc cagaatggga gaacctcgcc acccttgaag gtccgaatgg 60
 tggccttgggt tttctggccc ctgggtgcaa cccccgcttc agtacaagcg gcgctgtggc 120

tgccagacac cancgtttca tctaccgtct ncgttctata tgccgcctac gttctatctg 180
 ccgcccgcagc agcagccgca gccatggcaa taccacctc aaccaccgca gctaagcccg 240
 tgccagcagt tcggatcctg cggcgctggc agcgtcggca gcccgttcct gggccagtgc 300
 gtcgagttcc tgaggcacca gtgcagcccg gcggcgacgc cctacggctc gccacagtgc 360
 caggcgctgc aacagcagtgc ctgccaccag atcaagcaag tggagccgct gcaccgggtac 420
 caggcgacat a 431

<210> 9323
 <211> 397
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-B10

<400> 9323

atgtaaactg ccttgaaacc gtttaagggtg gcccaaccct ttcatagaacc cattaaaggg 60
 ccttgggtatt aagcctcttt ttggaccatc tgtcattaaa ggcctaattg gactttcaag 120
 gatctgaact agtcaggaag atggaccatt gcttatgctt atgctttgca tgatgaatct 180
 tgccgacttc aagctatcat cgagcatgta ctcatactgt acaaaatcgt acatgatact 240
 ctttgaatc ataataagca ccatctggtg caatctacac tagctgtagc tctgaataaa 300
 gaattccttt gcatgttaaa tatgacagaa tcagaaccaa tagcaagcac atgtgtatgc 360
 caatccaata taacagtcgt gcttctctta tgcccta 397

<210> 9324
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-B11

<400> 9324

atttaaccaa ttcgccgcac tgaacccctc tgcttatttg cagcagcaaa tactactagg 60
 atttgccag ctagctacaa caagccccgc ttccttcttg acacatcatc aattgcttcc 120
 gttctaccag cagtttggtg ctaacccgc aaccctttta caactgcaac agttgctgcc 180
 ctttgccaa cttgctttga caaacccgc agccttctac caacaacaca tcattggcgg 240
 tgcctcttt tagattgctt attagttgtc attcaataat gaagtttttt ggctgatgta 300
 tgtggcctcc tagaaataag aagttatatt tccaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360
 aaaaaaaaaa aaaataaaaa aataaagatc atagctaaga tgaagttgaa caaaaaa 416

<210> 9325
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-B12

<400> 9325

cggacgcgtg ggcgaggcca actcactacc acatcctgca tgatgagata ggcttcaggc 60
 ctgatgatct gcaggagctg gtgcattcgc tctcttatgt gtaccaaagg agcacaacag 120
 ccatatcagt cgttgctccc atctgctacg cacatctggc agctgctcag gttggccagt 180
 tcataaagtt cgatgagatg tcggagacgt cctccagtca tggcgggcat acttcggcgg 240
 gcagcgttcc ggtccaggag ctgccgcgcc tgcattgagaa agtgaggagc tcgatgttct 300
 tttgctgagc cgtgggtttta cttttttggt ggatggtgaa cccctctagt tatgtcggta 360
 gacgcttttg gatgacgctc tagttgtggt ccaggaaggc tcgagctggt acgatgttaa 420
 at 422

<210> 9326
 <211> 428

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-047-Q1-K1-B2

 <400> 9326

 gagaaagtca gatccgtggt ccgtgttcgc gttcaatgtg ttcgctactc cgctccggct 60
 gagtcctcag ttcctcacct agcggtagcg tgcgcgcggg agacgtagat ggcggcttcg 120
 gaggcggcag cggcggcggc aacaccggtg acgccgacag aggggacggt gatcgcgac 180
 cacagcctgg aggagtggag catccagatc gaggaggcca acagcgccaa gaagctggtg 240
 gtgattgact tcaactgcaac atgggtgtcct ccgtgccgcg ccatggctcc aatttttgct 300
 gatatggcca agaagtcgcc aaatgttggt ttcctgaaag ttgatgtcga tgaaatgaag 360
 accattgctg agcaattcag cgtagaggcc atgccaaat tcctgttcat gagggagggc 420
 gacgtcaa 428

<210> 9327
 <211> 315
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-046-Q1-K1-G12

 <400> 9327

 aactagcaac atagaaagca caatagtgtg ccaacaatgg cagccaaaat attttgcttc 60
 cttatgtctc ttggtctttc tgcaagtgtt gctaccgcaa ccattttccc acaatgtctc 120
 caagctccta tagcttccct tcttccccca tacctctcac cagcgggtgtc ttcaatgtgt 180
 gaaaacccaa ttgttcaacc ctacaggatc caacaggcaa tcgcaacagg catcttacca 240
 ttatcacctc tgttcttcca acaaccgtca gccctattac agcagttacc tttgggtccat 300
 ttggtggcac aaac 315

<210> 9328
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-046-Q1-K1-G2

 <400> 9328

gaagaaggga ggaaggaaag ggggataatc taaggtggtg ggcttcggg tcgtaggtgg 60
gatttgcccg aacttcgggt aaaggtactt gatacatggt gggaatgagg ggagtagcag 120
cacgtccact ttcactctca caataacgct gccagggcgc agccatgatt taattagaaa 180
cttattgtca aaggaagttt gtttattttt ttatatggtc gtgcgcactg gttaattcag 240
ttcaggtcgt atgtttatct ttccttgcta gccgagtaat aatacttagt atgttttagt 300
catgatatat gtttatactc tgttgctccc tcttttatgc aatcttgcaa aggggatgct 360
gccgaaattt tatatatgga cgtcggaagt gtagtacagt agcaaaaaat aaaaataggg 420
aaaa 424

<210> 9329
<211> 397
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3059-046-Q1-K1-G3
<400> 9329

cgcacgcgtc cgcggacgcg tgggcttacg cgtgggttcc ttcgtaagat ggtgtgcgct 60
aattgatata gagagctcat tgatttatta tccaaacaca aaaacgacct ggaaggattc 120
atgatacatg tatatggaaa tggcgaggac tctgaagctg tccagaacgc tgctaggaaa 180
tttgatttga acatcaattt tttcaaggga aaggaccatg cagatgattc actccatggg 240
tacaaggttt tegtcaatcc aagtgttagt gatgtgctat gcacagcaac agctgaggcc 300
cttgcaatgg ggaaatttgt agtctgtgca gatcatccat canacgattt ttttaagtca 360
ttccctaact gcttaacata tagaacttca taggaat 397

<210> 9330
<211> 422
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-046-Q1-K1-G6
<400> 9330

cgggtccggat tccccacgc gtgcgcgtct ttcgaggttc atggaacaat ttatgcattg 60

tattgtctca gtgaagcatc gattgtgctt gttgacctat gatgtagtta gcagaacatg 120
 tgagctccgg gtatctattg cctttgtttt gttaagccat tgagtcaagc tgcaattctt 180
 aatgaccatt ttacttcaat cccgttttct tcagttctgt gtttgttctg actaacgatt 240
 tgtattcaat gtttttttct gtctttccta aagctcttaa aggcaagaaa aaattgcaca 300
 acgaaaagca caagtctcga tctgaaaggc ctcaccgcca atctaataac accgaactgg 360
 ataaaggcaa aaaacgacct gcacaatcct ccaaatccga tctgcctaataaaaagatcta 420
 ag 422

<210> 9331
 <211> 354
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-G7

<400> 9331

aggcgacgcg ggggctgttg gcttgaacct ttatttgacc aaagggcagg caatctttgt 60
 tgaggtctct ggagccggtt gtcaaatggc tcgaggaggc tgaggaggaa gaataagcat 120
 ttgatttgga gaacggccga atgctggcct aagtgttact ttatatgtct gaagttagaa 180
 gtttgaggag gaattattgc tgctgcctct tactgcctag aactttatgt tatgatgttt 240
 aaccacatgg atcccggtg cacagtgcta taatatgttg ctgttaaaac tatgtgtcga 300
 gcattttttg aaaactttgt tatcaatact gaaaggagtt ataatgggac gtta 354

<210> 9332
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-G9

<400> 9332

gtgggttggc ttctcctccc cctccggttc ggggtcgggt tcgtgaggtt ctccgggggt 60
 cgggttcgtg ggtgagcgga tcgagatggc ggcgtcggat gttgagtacc gctgcttcgt 120
 cggcggcctc gcctgggcca cggacgacca ctccctccac aacgccttca gcacctacgg 180
 cgaggtcctc gagtccaaga tcctcctcga tcgggagacg cagaggtccc gcggcttcgg 240

cttcgtcacc ttctccacgg aggaggcgat gcggaacgcc atcgagggca tgaacggcaa 300
ggagctggac ggccgcaaca tcaccgtcaa cgaggccag tcccgcggcg gccgtggagg 360
cggcggcgggt gggtagcgtg gtggccgtg aggcggcggc tacggcggtg gcgggc 416

<210> 9333
<211> 417
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-046-Q1-K1-H12
<400> 9333

ggccaccctg aatctcaatg ccatgaacaa gctcagcacc aagaagccat gggccctgtc 60
cttctccttc ggccgtgccc tccaggcgag taccctcaaa gcctgggctg gcaaggtgga 120

gaacgtggag aaggctagag cggccttctt cgccaggtgc aaggccaact ccgaggctac 180
cctcggcacc tacaaggtg atgctgccgt cgacaccgag agccttcacg tcaaggacta 240
caagtattga gttgcttctc tttgcgatcc cgttgttttg aaactcctgc ctgcgagtag 300
gttctgtgagt gttgtttgct tgtagagct tttatattcg aacataaaaa aaacatgctt 360
cctatgtgga tgatggttat ctttatattc gtatattaac tactagtctc tgggtgtt 417

<210> 9334
<211> 407
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-046-Q1-K1-H2
<400> 9334

cttttgtcca aaaggcttaa gaaaggagaa gaccagggag aatcaggatt tattcgtgat 60
ggttttcccc gtacagtaaa acaagcgaa tattaactta atttgcgga aattcttgat 120
ggcgttacag acattgatat ggtgggtaat ctgaaactaa gagaagatgt tatagtagag 180
aagtgccttg gcagaaggat ttgcggccaa tgtggaaaga acttcaattt ggctgcatt 240
gatgttaagg gtgaaaatgg actcccacca atctacatgg caccactgtt gccccaaac 300
aactgcatgt cgaagcttat taccgagct gatgataccg aagaggtggt cagaaatcgg 360
cttcagatat ataatgacat gagtaaacct gtggaaggtt tctaccg 407

<210> 9335
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-H4

<400> 9335

ggaattcgac gcctcgactc caggcgcccg gtcaggcgac gcatgggctc aatgcctggc 60
ttcaaaaaaa ttccgtcagc agttgaagtt ataccatgg caaaactact cttgggtttg 120
ctccttgccc ttgctattct agggacaaca tcggctgctg gttgtgtaca agacgcggaa 180
gacatgaaac gagagtgcaa gcagtttgag ctattcccag cgaacccaaa gttgccaccg 240
tcggcagcat gttgtgctgt gtggaagacg gcagatgttc catgcctatg caaatatgtt 300

aacaaggaag tagagaaagt atgggtgcatg gaaaaagttg tgtacgtcgc caactattgt 360
aagaggccgt ttcaacctga ctacaaatgc gggagttata cagttcctct tagtatgtaa 420
aaagactggg tgggacatgt 440

<210> 9336
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-H6

<400> 9336

cccacgcgtc cgcggacgcg tgggctcagt gcctggcttc aacttgagcc caggtgtttt 60
taactttgtt gtgcctcagt ttatgcagta tgacattggg tatgtgcaat ctctggcat 120
gtccacaaac cagcatacta tgtactttgg ccagcctgat ctaacaatag ggtcttctgg 180
agctgctggt tategacatt ggccaacccc aacaatgatg tatccccatt gctatgataa 240
tgtagtcca atgatgtctc aggttcctct gtaccagtct ttcaaccatg attaggagat 300
tctgcttgct ggaaagttgg gaacaattct ctgttgaact tgctatgttg tgtgtccta 360
tgtaagtgg agttccttta gattcgagcc gtttt 395

<210> 9337
<211> 209
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-H8

<400> 9337

cccatggcaa aactactctt gggtttgctc cttgcccttg ctattctaag gacaacatca 60
gctgctgggt gtgtacaaga cgcttaatac atgaaacgag agtgcaagcc agttgagcta 120
ttcccagcta acccaaagtt gccaccgtcg gcagcatggt gtgctgtgta gaatagggtca 180
taagttccat gcctatgcaa atatgttaa 209

<210> 9338

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-G11

<400> 9338

gtgaagggtc tcatccagat ctcaagatct attggagatg tatatctaaa gaaaccagag 60
tacagcagag aaccacttca cagcaagttt cggcttcgag aaaccttcca gaggccgata 120
cttagttctg aacctcaaat tactgaacat cgaatacagc cgaacgatca atttggtata 180
tttgcttctg atggtctatg ggagcacctc agcaataagg aagcagttga ccttgtccaa 240
agtagtcccc gaaatggaat cgctcggagg ctagtgaaag ccgcgatgca agaagctgcc 300
aagaagaggg agatgagata ctacagacctc aagaagatcg accgtagtgt gagaaggcat 360
ttccacgacg atataactgt cgtcgtggta ttactcgatt cggatgccat ga 412

<210> 9339

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-E6

<400> 9339

gggtactctt tgggcagttt atggtgtcat acgtacgttg gatgcttcgg taggaactta 60
gacagactgg aatgacgtca tcgcgattgt actgagaaga gcttcctagc gtgcccagac 120
taagtgcagg cacatctggt cgtccacgca gtgatagcct tgccctccaa tctatatata 180

ctctatcacg tggcaaaag agcagtgtg attcgctaaa ctaatctgac gactctgccc 240
atcatgatac ttgacgtgac tcctaaccgt ctcgagacgt acactgttga ggcgctaac 300
gcgagctgac aggtcgctca gagagggttg ctgatcgta ggtacgatga gcata 355

<210> 9340
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-E7

<400> 9340

cccacgcgtc cggaaaacac atgttattca ttgggtgagg acagactgct atcgttgtgt 60
tgatgaagca tatgaagatg gaagaaatcg gcttgaagct ttgttatcaa gattacattg 120

cctcaatgtc ccaacacttt cttctggttc tataaaactc aatgttgaaa actttggccc 180
agtaatgcaa aaatcaacga tgtcaagcga agaataaaa aatatcgttg tccaagctaa 240
agaacacatc ttggccggtg acattttcca agttgtttta agccagcgtt ttgagagacg 300
gacattcgcc gacccctttg aaatctatcg tgcattgcgc atcgtaaate ctagtccata 360
tatggcctat ctacaggcac gaggttgtat tctcg 395

<210> 9341
<211> 84
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-E8

<400> 9341

cgcacgcgtg cgtgaacgag atcgttcaca cattcggacg accgactgtt gtagtggctt 60
agtttaagta tactatatta caca 84

<210> 9342
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-F1

<400> 9342

cagtcatcca cactaacgaa cgaactcttg ctccgatcac gagctagctg aggtcgacga 60
 tggcggctgt gctgaacagc aggaagacgc cgcaggtggt ggccgtgctg gtggtggtgg 120
 cgctgctggc ttcgtccgcg tcggcggcga tcacctgcgg gcaggtgggg tcgtcgctgg 180
 cgccgtgcat cccgtacgcg acggggaggg ccagcgcgct ccccgcgctg tgctgcagcg 240
 gcgtcaagag cctcaacagc gcggcgcgga ccagcgcgga ccgccaggcg gcgtgccgct 300
 gcctcaagag cctcgccaac agcgtcaaga gcgtcaacat gggcaccgtc gccaccatcc 360
 ccggcaagtg cggcgtctcc gtc 383

<210> 9343
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-F11

<400> 9343

cggacgcgtg ggcaacacaa cactctcggg ctttggccag gagaatatgg aaaaagtaga 60
 ctctgacact gccactacct ctaatgacca atccaaggcg gaagattcca gtgtcacaaa 120
 gaagcgcgct gcaagctttt ggtttgatga ggatgggttg tttaacaacg atgatgaagg 180
 gagggcggaa aggcagcagt gtgctattgc agcctccaat ataatccgca atttctcttt 240
 tatgccagaa aatgagatta tcatggttca acataggcat tgcttggaat ctatatttca 300
 ttgcttagaa aaccagaata gaggtaaata ttgaaatatt gtccctgcgtc tttgtttttt 360
 tagtttatag attaacttgg tgatggtcaa atgaggctat gtgaatgtgt ttggcacttc 420

<210> 9344
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-F12

<400> 9344

cccacgcgtc cggctctttc tgcattgtgt gctaacgcga caattttccc tgaatgggga 60
 caagctccta tagcttcctt tcttgcccca taccttccat caatgatagc ttcaatatgt 120
 gaaaaccag ctcttcagcc ctataggctc caacaagcaa tcgcaacaag catcatacct 180

ttatcacccct tgttgttgca acaatcgtac agccctatct atgggtgcaga cattgagtag 240
ataccatcaa ggcacaggac ctgcaatacc tegtgtctacc tgtgatcaac caagtagctc 300
tggcacacgc ttgtgcctac tctgagctac atcaatgcat tgcattcaac ctactgtcta 360
cactgaaccc tactgtctaac ggcgagcaac aactattacc attca 405

<210> 9345
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-F2

<400> 9345

cccacgcgtc cgcgtagttg caaaccagca acaacaacaa ctgcaacagg ttctggcagc 60
gcttagtcaa ctagccatgg tgaaccctgc cgcctaccta caacagcaac aactgctttc 120
atctagcccg ctcgctgtgg ccaatgcacc tacatacctg caacaagaat tgttgcaaca 180
gattgtacca gctctaactc agctagctgt ggcaaaccct gttgcctact tgcaacagct 240
gcttccattc aaccaactaa ctatgtcgaa ctctgttgcg tacctacaac agcgacaaca 300
gttacttaat ccattggcag tggctaaccc attggtegct gccttcctac agcagcaaca 360
attgctgcca tacaaccggg ttctcttgat g 391

<210> 9346
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-F3

<400> 9346

cgttcttctg cccacgcatc ttcagctttc tgcgcaagtg gaggcgctac gacgacgaca 60
tggccgactg ggacggcggg tacgcgcgca aggtgcgctc cagcgacgag gactacggcg 120
gctggtgggt cagcgagccc gacgtcgacc gcaaggcctc cgacttcac aacaacttcc 180
accagaagaa ttgaagggtc gcgttctctg ctagctgcga ctgctaccgc ttccccacgc 240
cagcatagca tgcaatatgc atatatatgg tcgacgacga cgatggcaca cggccggcag 300
caccaccgcc cgccgcgcg cgggtccacg ctatgcatgc atgcagctac gtttcattta 360

ttaccagggtt ctttgatatt tctatatata t

391

<210> 9347

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-F4

<400> 9347

ctgtaaataa gcaggagagt tcaatgctgc gcctaacgct ggcaccctct tacagctgca 60

acaattgctg ccattcaacc aacttgcttt gacaaacca gcagcgttct accaacaacc 120

catcattggt ggtgccctct tttagatttc ttatgagtta tagttcaata ataaagtttt 180

ttgtctgatg tttgtggctt cccagaaata agaaagtaca tttctagatt ctaaaaaaaaa 240

caaaataaca tgcaatatgc atatatatag acaacaaca caatggcaca acggacgaca 300

acaccaccga ccgacgacga gccgggtccac gctatgcatg catgcaacta cgtaacatat 360

attaccagggt tctaagatat tcttatatat at 392

<210> 9348

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-F5

<400> 9348

cggacgcgtg ggtcttgga catgctgagc ctcttctaaa agttacaatt gttccgcgtg 60

ggacagctgc tttaggcttt gcacaatacg tcccaaatga aaatcttttg atgacaaaag 120

agcagctttt tgatatgaca tgcatgacat taggtggccg tgctgcagag gaggttttga 180

ttggcaaaat ctcaactggt gctcagaatg acctggagaa agttaccaa atgacatatg 240

cacaggctgc cgtgtatggt tttagtgaag aggttgggct tctgtccttc cccagaaaag 300

atggtggttt cgaattgagc aagccttaca gtaatcagac agcatccatc atcgacgatg 360

aggtccggga atggtttggc aaggcctaca agaa 394

<210> 9349

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-F6

<400> 9349

cggacgcgtg ggcgagcaaa ccctatcgag cgagagagcc cggagccgag agaccggcca 60
gccatggcgc tgcgtgccct gtacaacgag atccggagca tgaaggcccg cgacgtgccg 120
gcttacctga agccgcgctt gacctgagac aacgtcaaga agagcgccga ccaggccgctc 180
gaccgctaca tcgagaagta catcgacacg agctcgccgg accctctcta ccacgtctgc 240
atcggaggga tgatcttctc ctacttcgtc aatctgccct gggagcgcg cccacctcgcc 300
cacctcgagg agatggagag gaccggtggg aagcactaga tccgctgacc cgtccctcgc 360
cggcagcgcg gtaggacggg tgactctcat ggggtccatt caagctgatg gcttctggta 420
tcttctgctg gtg 433

<210> 9350

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-F7

<400> 9350

ttttattttt tagcaaccag acttcctctc taggtcatgg tgatttatac gagtatcgat 60
gaattcgagc tcaagatatg ctatcattat tacatattct taatttgcta atactttcat 120
tttggtatat aaaattcatt gacgaacact ttaaccatt aatccataag tttttcatgt 180
ttaccgacta ctataaacat tattgggttac catctaacia tcaccttttg gccattaca 240
tttaciaaagc tgttttaatc caaccttacg aaagacggtc attcaacgac ccctctgaaa 300
tctatcactc atttt 315

<210> 9351

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-F8

<400> 9351

gaacaagtga tgaaggtcct ggacccaagg ctctcgaccg tcccgtgca cgaggtgacg 60
 cgcgctcttct acgtcgcggtt gctgtgcacc gaggagcaaa gcgtgcagcg cccgacgatg 120
 agggaggtgg tgcagatcct gagcgagctt ccaaaaccgc catctaccaa gcagggagag 180
 gagaattcta ccaagcaagg agaggaggtt ccgaattccg gcgacggctc tgcgcccagc 240
 cctctacact cagcaccagt tgggaccaac gaagcaccag ccgtcgaagc gagagaccac 300
 cagcagcaga caagctctcc gtcgtcgcca ccgcctccag atctcatcag catctgagta 360
 accggaatcg aaaacgttac cgttcctcgc aaaaatcccc gcttcagtgt a 411

<210> 9352
 <211> 363
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-E5

<400> 9352

gattgagtcg gtggactcgc tgaacccgtt catgcacgcc cgtggggtcg ccttcagggg 60
 ggacaactgc tccacaacgg ctgcctggg atccaggaag tgggcgcctc gcttcgacta 120
 catcctgacg cagcaggcct tcgtggcggt ggacaaggac gccccgatca accaggacct 180
 catcagcaac ttcttgctcg accctgtcca tgggtgccatt gaggtctgcg ccgagctgaa 240
 gcccaccgtc gacatctctg tgcttgccaa cgccgacttt gtgcgcccgg agtccggca 300
 gtcttcctag attgaggcag tgagcggaga gggagagggg gagagaaaga gaggatttcg 360
 tgt 363

<210> 9353
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-G1

<400> 9353

ctcggaactg gacaccctga gcgaggagtc ctacaaggac agcactttga tcatgcagct 60
 ccttcgtgat aacttgacct tatggacctc tgacatctcg gaggaccctg ctgaagagat 120
 tagggaggcg cccaagcggg actcgagtga ggggcagtaa agccggcttt atgtgcctag 180

aaactagtag ctagtgtttg ctgctgtcga atgacactat gcaatgtgat ctggaacctg 240
 gtttcttggg tgcgacgctt gtagccgtgt tatgactgtc gtccgtaaaa tttgggggct 300
 ccccgtaagg gatgctgcct ggcaaggcct cgggtgtocca ccctgtctgt ggcggttgggc 360
 gcttgaaccc cggtc 375

<210> 9354
 <211> 418
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-046-Q1-K1-D12
 <400> 9354

ctgtaaccga cgacggaacg ggtagctcat ctgcggcgag ctatgagcga tcggccgagt 60
 caggtgatgc ttcacaggac gctgacactg aacacacact ctccaagctt cagactactt 120
 cagtggatga cctgccatat actgtacaat aggggaacaag atcaaacgat gatcgcgtaa 180
 caggtctact agacgagaaa cttcacaatg aggtaagatt ctatgaccac atgcagcgtc 240
 aaatttaciaa ggcgaggctc aagttattac atactattca tgttgaatcc agtgatttcg 300
 atcttgagat tcactatgcc tttcatgatg aacctcatat actactagct tagatagtca 360
 tgacgatagc taggactatt atagtgaagg cctgcaatca cactgatcat tgctagat 418

<210> 9355
 <211> 221
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-046-Q1-K1-D2
 <400> 9355

cccacgcgtc cgttcagcag gctcatgcag tgcagaagat tcaccttaaa gtaacgatgc 60
 cttgggtttg ccataccatt gacgtcaacg gctacaggta atggagaaga cctggagtgg 120
 tagagggagg tgtgtttcag gcgggtgaaa attcaagttg tacagttgaa ctcaccagga 180
 ttggaaaatg gtcatacaatt caaatttgag ttgtttttct t 221

<210> 9356
 <211> 373
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-D3

<400> 9356

cggacgcgtg ggcggacgcg tgggctcgtg agtttgtgac agtgggttttc tctgtgccgc 60
cttttgcagg ggaagggggt ctgggttgcg tacaggcgaa aggcacgcgc cgccgctgcc 120
gcgcgagcct ctccgtcccc atcgccgcgc agatggatcc gtcgtcggag cccctgtacg 180
cgcaggtcga gccgtacgac tccgggttcc tcaaggcttc cgatgtccac accatctact 240
acgagcagtc cggaaccgcg cagggccatg cggccgtgtt tctccacggc ggtcccggag 300
ccggcacgtc gcccggaac aggaggttct ttgaccgcga gttctacagg atcgttctgt 360
ttgaccagag ggg 373

<210> 9357

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-D4

<400> 9357

agcacatcaa acaagtggcg acagactaaa gatttgtgag ggtgatccgc gctgaggaga 60
gatggctaag atcgccgcgg cggcggcggc ggcgctgtgc ttcgcggccc tgggtggccgt 120
ggccgtcatg ccaaggcgag gtctagcggc acaggctcat ggacctgcag tgctggcagg 180
aggtccagga gagcccgtc gacgcgtgcc gccaggctct cgaccggcag ctaaccggcg 240
gtggcagcag cggcggcgtt ggcccgttcc ggcggggcac cgggctccgg atgcggtgct 300
gccagcagct ccaggacgtg agccgcgagt gccgctgcgc cggcattcgg agcatggtca 360
ggggctacca ggaggccatg 380

<210> 9358

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-D5

<400> 9358

ggcagttgct gtagagcgat gagcactcag gtaactggag accaggtgca ggagtggaga 60
 actaaggatc aggccaggaa ggcaggcaat ccatggcgat cgacggagga gaattacca 120
 agtgtgagca ggtcgactat ggaagtgaag ttgaaggctg cgcagatgat gagaaccctg 180
 gcaagagggc tgcttttagtt actttgggtg gaaatgaata ctgcggcgac gaggattaga 240
 gagttcaagt gtcaccatt gtcaagaaag gcgagcatgc agatgacatt gtcgaccgga 300
 ttaatcctgg cacagttgca gggtagctg aaatgaaggg tgctgtaggt gct 353

<210> 9359
 <211> 381
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-046-Q1-K1-D7

<400> 9359
 gaaacacacc tagcgaagcg cactagcaac gacctaaca caatggctac caagatgtta 60
 tgccctctttg cgcttcttgc cctttttgtg agcgcaaca atgcgttcat tattccacaa 120
 tgctcacttg ctctagtgc cattattcca cagttctctc ctccagttac ttcaatgggc 180
 ttccaacacc cagctgtgca agcctacagg ctacaacaag cgcttgccgc gagcgtctta 240
 caacaaccaa ttgcccaatt acaacaaca tcttggcac atctaaccat acaaacctc 300
 gcaacgcaac agcaacaaca atttctacca gcactgagcc aactagctgt ggtgaaccct 360
 gtcgcctact tgcaacagca g 381

<210> 9360
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-046-Q1-K1-D8

<400> 9360
 ctcaaagcaa cctccagtct tccaacaatc ctgaaaagcc agcagctaaa gcagatgctg 60
 ccgaggcaac cgctaattgg gttccaaatg gtactggtca cactcacagt tacagtggaa 120
 ctgtaccaag ccaacaaagt tcagcactga cgctgatgg aacttatagg gcgcccttgc 180
 taggtggagt tcttctgct gggtacctag acacgacata ttatgggtat gacagcacag 240

gggcacaatt tgcattggtat gatggctctg cttatgcaaa tggacagcaa agaacaacca 300
 caactaatcg ttttccatcc tcgtcattca gtggtaatgg ttcattctgca atatattcaga 360
 acaagagctc caccacgcag cagatgggta tgcagaatag aagacctaca actccatcag 420
 cagcttctac cta 433

<210> 9361
 <211> 418
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-046-Q1-K1-D9
 <400> 9361

cccacgcgtc cgctcttcat ctctggcaca aagatgcgca ctcttgccaa gaaccgagag 60

agtgccccag atggttttat gtgcccgggt ggctggaagg tactcgttga atactatgac 120
 agcttggtgc catctgaggg cagcagcaag ctgcgtgaac caattgcagc ctaaattctgg 180
 aaaatccttc atataaggaa tgctactata tcttagcaag cggttctttg cgacatagaa 240
 ccgatgctat gtgattgtat actggctgta agactttaaa aactaggct tgattcggat 300
 gttaatgtgt gctttgtacc cgggtgtacct tctctgctgg cagtgttgca catgcactgg 360
 agcacatcaa acgtttggtg ttaataagga caggctatgt atcctctgcc agattgta 418

<210> 9362
 <211> 377
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-046-Q1-K1-E1
 <400> 9362

cccacgcgtc cgcggacgcg tgggtcaagc tttgcaaggt taggtctgtg cagttgggtc 60
 agaagggcat cccctatctg aacacgtatg atggccgcac catccgctac cctgaccgcg 120
 tcatcaaggc caacgacacc atcaagatcg atctggagac caacaagatt gtggacttca 180
 tcaagtttga tgttggcaac gtcgtcatgg tgactggcgg aaggaacact ggccgcgtgg 240
 gtgttatcaa gaacagggag aagcacaagg gcagctttga gaccattcac gtggaggact 300
 ccctgggcca ccagttcgcc acccgatgg gcaacgtgtt caccatcggc aagggttaata 360

agccgtgggt gaaccct

377

<210> 9363
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-E10

<400> 9363

cgcggtgcgaa ccaagcagac cacaacatga agaagcgtag tcgtcgccgg aaggaaaggc 60
gcggagcaag atgtcgtggc aggcgtacgt cgacgagcac ctgatgtgcg agatcgaagg 120
acagcatctc agcgccgccc ccatcgtcgg tcacgacggc agcgtttggg cgcagtccga 180
gagcttcccc gagttaaagc ctgaggaggt tgctggtatc ataaaggact ttgatgaacc 240
tggtactctt gcaccaactg gtcttttcgt tggaggtaca aagtacatgg tgatccaagg 300
tgaacctgga gttgtcatcc gaggaagaa gggcactggg ggcattacta tcaagaaaac 360
cggcattgtcc ttgattattg gtgtctacga cgagccaatg actccagggc aatgcaa 417

<210> 9364
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-E12

<400> 9364

cccacgcgtc cgcggatcga gatcatgatc cagcgagcga gcgagccagc tcgtcacttc 60
cattagcagt tagtctcggg ctcgttggcc gtctttgctg gggcagctac ctagcagacg 120
catggcacac gtgcaccggc cacggagccg cgccgtgctc gcggtcgccg tcgccgtcgc 180
cgccgcggcg ctctctcttt ttgccgcagc gggcgctccc cgtgcggccg gccagacgac 240
gacgacagcg gtggtggatc tggacagctg ggccgatcgc ggcgcggcgt gcacgggcgc 300
ggtggaggcg tgcggcggca tcggcgcgac ggccaggacg gagctggggt ccggcgggta 360
catcagctac gacgccatga gccgcgggcg cgtgccgtgc tcgtaccgct gcgcgt 416

<210> 9365
<211> 405
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-046-Q1-K1-E2

<400> 9365

gcggcagtgc gtagagagga tcgtcgaaca gaacagcatg aagatgggtca tcgttgctgt 60
cgtgtgcctg gctctgtcag ctgccagcgc ctctgcaatg cagatgccct gccctgctgc 120
ggggctgcag ggcttgtagc gcgctggcgc cggcctgacg acgatgatgg gcgcgggcgg 180
gctgtacccc tacgcggagt acctgaggca gccgcagtgc agcccgtgg cgggggcgcc 240
ctactacgcc ggggtgtgggc agacgagcgc catgtaccag ccgctccggc aacagtgtgt 300
ccagcagcag atgaggatga tggacgtgca gtccgtcgcg cagcagctgc agatgatgat 360
gcagcttgag cgtgccgctg ncnacagcag cagcctgtac gagcc 405

<210> 9366

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-E3

<400> 9366

cccacgcgtc cgcgcgctca gtgtcatttg cagttcccg tagcagccat ggcgtgggtg 60
cagctgtctg ggccgcgggt ggtggcggct gcgaaaccgg ctgcgttggg cgggctcctc 120
ctgacccgt cccttgcggt gccaaagggg cggagggcca ggggcctcgt ggtgagggcc 180
gccacggtcg tgtaacctaa gtatactcc ataaaaccat tgggagacag agtacttgtg 240
aagatcaaaa cctctgaggc taaatctgat ggaggtattt tacttccagt atcagttcag 300
acaagaccac aaggagggga gattgttgcg gttggagaag ggagaagttt tggaagt 357

<210> 9367

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-E4

<400> 9367

acacaatcgg tgtatccaag gactctcaac ttcgtgccgc taagattatc ggggcgatat 60

gtaatggcta tgagccggta ccatacctctg gtaaaacaag ccaactcttc catttcgcca 120
 agggaaaaaat ggcggctcgc tgggctagac ttcgtgcagc tgtggcagcc tcagacatct 180
 ttactctccc ttatgagcta tctggctatt gtagcttttc caatgagact gtcaccgcca 240
 atcctccatt tgcattggctt cgctacaaca aggatgatat tgaagatctg gaggccttcc 300
 tactcgagaa aaagattatc actcgaggctg gcacaagggtt tggagtggat gcaagggctg 360
 tcagaagtag tatggttgac aca 383

<210> 9368
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-D11

<400> 9368

cggacgcgtg gggtagacga cggcctgaaa gagctgagtg gagcctgtcc cgacgagcac 60
 atggtatccg tctacaacgg cattccccat ctgtgaccaa ctatctaaac tctgcgctct 120
 accgttgggc tggatgatgcc aatacatttg atggcgacac atgtattgag ctcgtctgct 180
 ccccaaacaa ccctgatggt ggcctccgga agcctgtcat caaatccaag tctagcaagc 240
 ctgtttatga cttcgccctac tactggccgc agtacacacc catcaccgag gcagctgccc 300
 atgatatcat gctgctcact gtctacaaat gcaccggcca tgccggcacc aggctgtggt 360
 gggcattggt gaacgatact aagggtggctc agaagatgat caagcttata gagctc 416

<210> 9369
 <211> 397
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-B6

<400> 9369

cccacgcgtc cgagaacca cccccacca tgacgagctc ctctctctt tccagagagg 60
 cgctgagcaa gatcgcttgc aatcggtgc acaaagagct cgccgagtgg cagccaaacc 120
 cccccgtcgg gttcaagcac aaggctctacg ataacctcca aagggtgggta attgaggtca 180
 ccggagcggc cggcaccctt tacgccggcg aggcttacca gttgcagggt gacttcctctg 240

agcattatcc tatggaggca cctcagggtca ttctttctcaa tccagcgcca atgcatccac 300
acatttacag caacggggcac atctgcttag atattctgta tgactcgtgg tcgccagcga 360
tgaccgtgag ctctgtctgt atcagtatcc tgtctat 397

<210> 9370
<211> 397
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-046-Q1-K1-B7
<400> 9370

agcgactcct ctgcgtgagg cctgctttca tccccgtgg gccgtggcgg gggccgtggc 60
cgtgcgcaaa aaaacaaacc atcctcgatt cgaccggagg ggaaggagac gcgccgggag 120
aagggggaag agacgcggcg accatgtctc cgatctgggt gttcgggtac ggctcgctga 180
tctggaaccc aggcttcgcc tacgacgacc gcgtcgtcgg ctttgtcagg gactaccgcc 240
gcgtcttcta ccaaggagc acggaccaca ggggcacgcc gcagttcccc gggaggaccg 300
tcacgctcga gcaccagccc ggaacgactt ggtggggagt tgcttacaga ataaaagagg 360
gaagataaag ggatagcttt ggagtatctt ggagtca 397

<210> 9371
<211> 320
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-046-Q1-K1-B8
<400> 9371

gcaacataga aagtggaatc cagtagcaac aacagagcaa caatggcgac caagatgttt 60
tcggctcctt atgctccttg ctctttctgc atgtgttgct aacgcgacaa ttttcctca 120
atgctcacia gctactatag cttaccttct tccgccatac cttccatcaa tgatagcttc 180
agtatgtgaa aaccagctc ttcagcccta tgggctgcaa caagcaatcg tagcaagcaa 240
cataccttta tcacccttgc tgtttcaaca gtcgccagcc ctatctttgg tgcagtcatt 300
ggtacacacc atcagggcac 320

<210> 9372
 <211> 393
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-046-Q1-K1-C1

<400> 9372

gcaaaatctg cacgagagac agacgacgag atggccgatg cggaggacgc cgccggggcg 60
 cgccgacggg ccgccataac cgactaccgc aagaagctgc tcaactgcag ggagctcgag 120
 tcgcgctcg gcaccgtgag agaaagcctt aaaaatgcaa agagggattt taccaagact 180
 gaagacgact tgaaatctct gcagagcgtg gggcaaataa ttggagaggt tctccgacct 240
 cttgataatg aacgctttat tgtgaaggcc agcagtggtc cccgatatgt ggtcggttgc 300
 cgaagtaaag tagacaagga gaagttgaca tctggaactc gtggtgtact tgacatgacg 360
 accttgacaa taatgcgcac tcttncacgg gag 393

<210> 9373
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-C10

<400> 9373

ctcgcgtcga cgactgggct accgggcgct ccaccctccg cctggtgtcc ttcgccgtcg 60
 acgagcgcac accagggtag agtacgtatt gctcgtgatt tgtgtaacta cggagcaagc 120
 tgcatacagc acaagataga agatgggtat ccttgagagg atcaaggaga ttgaggccga 180
 gatggctcgg actcagaaaa ataaagcaac agaatatcat cttggacaac tgaaggcaaa 240
 actagcaaag ttgaggacac aactattaga gcctccaaag ggttccagcg gaggtggaga 300
 tggttttgaa gtcacaaagt ttgggcatgg tcgtgttgca cttattggat ttcccagtgt 360
 tggaaagtca actcttttaa cgatgttgac tgggacacat tctgaagctg catcatat 418

<210> 9374
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-C11

<400> 9374

ggatatttctg tgttcattgc taccaatatc tgtgagaata tcatctggaa ggcatttagc 60
cccggaacca tcaacagtgg tcgtggtgct gaattcgaag gggctgtcat tgcactgttc 120
catctgttga ttacgagaac cgatacagtg ctgctcttc gtgaggcttt ctaccgccag 180
aaccttaciaa atgtgaccaa tttgcttgcc actgtcttgg tgttcctcat agttatctat 240
ttccaaggct tccgtgttgt gcttcacagt agatcaaaga atgctcgtgg ccagcaaggc 300
tcatatccaa ttaagctgtt ctacacttca aacatgccca tcattcttca ctctgcgctg 360
attaccaacc tctattttat atcccagctt ctctacagga agtacagtgg aaa 413

<210> 9375

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-C12

<400> 9375

cccacgcgta cgaggacgcg tgggcggaac ccaaattcca gcacgactcc tggagccagc 60
ggcccaagca tacctagggc ccttgagctc cctcccgcat ggcgttcccg cggagcctgt 120
cggatacggc cgacgtaccg cctgtggcgc ccgcgcccg ctcccttagc gtgtgcgcgt 180
ccgtgaccgg actcacgcgt gtgccggttc tcaccggcag gcggcgcaag tggagcacgc 240
tcgtggtctg ctccaggacac gactaggaga agattaccaa gcggtcagcc gtcgatttga 300
ccatcgaatg ggagagacca aagcctgtga cgagacctga tatcttcctt aagtacaggc 360
caatgaagac accattaccg catgcgtgac cagctgacga tccgatggat gatgatcaa 419

<210> 9376

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-C2

<400> 9376

cccacgcgtc cgccacgcg tccggtcaac ctgatcatg gcgacccgac tatgtgcgag 60

gagttctggc gcggcacagg agatagcgcc tcgatcttca tccctgggtg gcaaacaatg 120
agctacttct cggacctcgg cggcatctgt tggttcctgg agcctggatt cgagcgcgag 180
gtgcggcgtc tccacaggct cgtggggaat gccgttgtag acgggtacca tgtgctcgtc 240
gggacaagct ccactcagct ctttcaagcc gtgctgtacg cgctcttaac ttgcagtgc 300
ggcacaacca ttgacctcgt ctaccggca cggactact cgtcttacct atctgtgacc 360
aactatctaa actctgcgct ctaccgttgg gctggtgat 399

<210> 9377
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-C3

<400> 9377
cctacaacag caacaactgc tttcatctag cccgctcgct gtggccaatg cacctgcata 60
cctgcaacaa caattgttgc aacagattgt accagctctg actcagctag ttgtggcaaa 120
ccctgctgcc tacttgcaac agctgcttcc attcaacaa ctgactatgt cgaactctgc 180
tgcgtacctt caacagcgac aacagttact taatccacta gcagtggcta acccattggt 240
cgctgccttc ctacagcagc aacaattgct gccatacaac cagttctctt tgataaaccc 300
tgtcttgtcg aggcagcaac ccacgttgg aggtgccatc ttttagatta catatgagat 360
gtactcgata atggt 375

<210> 9378
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-C4

<400> 9378
actttctgtt gactctgggt ctgattcctt caatgagctt ttcaatagcg tggaagagac 60
tggaattact gttaggcctc aacagttgga ctccactgtg caaccaaacc atgtgttcgc 120
tagccagggc aatgcaacac ggaggctgcg gctacagggt gagtgtaggg agatcataac 180
taaagatgag agtgaagatg aagtatcatg tgttctaact ccagactggt tgaacgattc 240

tgttgaggag tccactgcag agaaggatgt ggcttctgat ggggatgagg ctgagtcaac 300
aaggattggt attagaagcc a 321

<210> 9379
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-C5

<400> 9379

cggacgcgtg ggcggacgcg tgggaggacg cgtgggacag cagcaacagg tactagcatt 60
cagccagcta gctggtgtga gccctgctac cttcttgaca caaccacagt tggtgccgtt 120
ctaccagcac gctgcgccta acgctggcac cctcttataa ctgcaacaat tgctgccatt 180
caaccaactt gctttgacaa acccagcagc attctaccaa caaccatca ttggtggtgc 240
cctcttttag atttcttatg agttatagtt caataataaa gttttttgtc tgatgtttgt 300
ggcttcccag aaataagaaa gtacatttct 330

<210> 9380
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-C8

<400> 9380

ggaatgccgg tcacaactac tcttatgggc ctcggaact tccacagcga cgaccgactg 60
tgtctgcgca tgctaggtat gcatggcacg gtgtatgcaa attatgcagt ggataatgcc 120
gatctgttgc ttgcacttgg tgtgcgggtt gatgatcgtg tgacagggaa gattgatgct 180
tttgcaagca gggctaagat tgtgcacgtt gatattgac cggctgagat tggcaagaac 240
aagcagccac atgtgtacat ctgagcagat gttaagcttg ctttgcatgg catgaatgct 300
catgttgaag gaagcacatc atagaagagc ttggactttg gctcatggaa cgatgagttg 360
gatcagcaga agagggaatt ccgccttgag tataaaacat gtaat 405

<210> 9381
<211> 415
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-C9

<400> 9381

cgcccgttcg tcttgtctag cgaccagcgc gccagggccg cccggccatg gagaagaagc 60
tgctgctgcc gctggcggtg ggcacaaagc acgcgcacgg aggcggcggg gagcggccgt 120
gggcgcggcc gtggcggtgg gccaaagacc ccttcttcgt cgcgggcatg ctggcatcgc 180
tcttgctcgt ctgcgcgcgc cgcgtgctcg tcgtgctcct cgacctcgcg ctcccgccgg 240
cgctcctcct ccgcggcggg gatggcgggc gcggtcgcct cgcgctggcg gtcgtggccc 300
aggcgcgggc gttcgacttc cgctcctcgc tcgtcgacct gcccgccgtc tccgcggcgc 360
gcgcgctgct catcctctgc gcgtacgtgg cgtgcggcgg aggcggcgcg tacct 415

<210> 9382

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-D1

<400> 9382

cggacacttg gtcagacgcg tcgcctgacg cctgaggcct caatctcaag gactagcact 60
gactacgata actactgtaa gcccatgtac cgtctggacc caacgacagc tgatgacctg 120
ataccagcac tcttggcgta acactctcac actgttataa ctgcgacata cgctggcatt 180
gaactcaact tgcattcacg ataccctaca ccattctacc aacagctcat aattgttgtg 240
accgtccttt aactatgccc taatacaacc agaacaatat taagaggcta tacactatct 300
ttgccgatct ccagacgtac gaacaggcat ctctcaaagc ggcagcaggg gggaaagaag 360

<210> 9383

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-D10

<400> 9383

gaagaacccg ctcgacacca tgagggtggt gctcgctgcc cttgctgtcc tgggtctcgc 60

tgcaagcgcc acctccacgc atacaagcgg cggtgcagc tgccagccta cggcgccggc 120
 tgatttaccg acaacagtgc atatgccaac tccggataag ctgacagcta cggagcatct 180
 cacaccgccg attcacctgc cgacgccggt acacctgcaa ccggcagAAC atgtgccgac 240
 gccggctcat ctgacgacgc aactatgcca gtaccctact gaaccgagcc ggcgtgagca 300
 tgatcccaa gcacacacat gcgcgcgcca acagccggat ccaagcgcac gccagatgca 360
 tggaacctgc agcgttggca ggacgccgac cctgagacag tgcgaagag 409

<210> 9384
 <211> 384
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-046-Q1-K1-B4

<400> 9384
 ggtttaactc gcaaagaagc tcaagatggt cacattaagt ttgcagagaa agcttgggtg 60
 caacaggcgg aagtaattct tgctgatggg aaattaacag aggctaaggc tgaccagctt 120
 gctaagattc aaaagcaggt cggtttgcct actgaacatg cacagaaaat cattaagggt 180
 attacaacga caaagttatc ttctgcaatt gaagcctctg ttgctcgggg tcagatcggc 240
 atacagcagg tccgaagatt gaaggaagca aacttccaac tagatagctt gattgcggaa 300
 ccgcagcgag aaagcattta taggaaaact gttgaagagc tcttttttca ggtacagggg 360
 atttcgatga agaggaaatg tatg 384

<210> 9385
 <211> 418
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-045-Q1-K1-H9

<400> 9385
 catgaggggtg ttgctcggtg ccctcgctct cctggctctc gctgcgagcg ccacctgcac 60
 gcatacaagc ggcgggtgcg gctgccagcc accgcgccg gttcatctac cgccgccggt 120
 gcatctgcca cctccgggtc acctgccacc tccggtgcat ctcccaccgc cggtcacact 180
 gccgccgccg gtccacctgc caccgccggt ccatgtgccg gcgtcgggtc atctgccgcc 240

gccaccatgc cactacccta ctcaaccgtc ccggcctcag cctcatcccc agccacaccc 300
atgcccgtgc caacagccgc atccaagccc gtgccagctg cagggaaacct gccgcgttgg 360
cagcaccctcg atcctggggcc agtgcgtcga gtttctgagg catcagtgcg gcccgacg 418

<210> 9386
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-A1

<400> 9386

cgctccgcga cgcgtccgcg gacgcgtggg cttacgcgtt tgctgacgcg tggaaggatt 60
tggaatcgga gaatttttaa aagcgtgctg ctaatcatgc aaaggagcct aagaatgtaa 120

atcgaatatc actgacgact aataaagtac aacctgatca atcagcaagc caacccaaaac 180
atgttgccaa tgcctaaaag taccgaggtc ttattacata ttagctagag agtattttctt 240
acatacatcc aaaacaaccg tttaaattatt gataggatat tgccatcgaa tcaacacctg 300
gttcactatt aaatacac 318

<210> 9387
<211> 233
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-A10

<400> 9387

aaaaaaaaa caaaaacaca atttaaaata aaaaaaaaaa aaaaaaaaaa aaaggggaag 60
gaaaaaaaaa ataaatacac aaaaatgcaa cgatgctatt cttcaataaa gataccgtaa 120
ttcaattcac taggctcata actttacaac gtcgtcactg agaaaacatt tgttctacca 180
tcagcttaaa aacaattgca caggtaagac tttaaccaga tggactttta tca 233

<210> 9388
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-A12

<400> 9388

cggacgcgtg ggcagccaac aacttcgctc gtggctacta caccattggc aaggagattg 60
ttgacctgtg ccttgaccgc atcaggaagc ttgcagataa ttgcactggc ctccagggct 120
tcctcgtctt caacgctggt ggtggaggaa cgggctctgg gcttggttct ctctcctgg 180
agcgctgtc tgttgactat ggcaagaagt ccaagctcgg tttcacctg taccatccc 240
cccaggtgtc cacatccgtg gttgagccat acaacagtgt cctgtccacc cactctctcc 300
tcgagcacac tgatgttgct gtctgctcg acaatgaggc catctatgac atctgccgcc 360
gctcccttga cattgagcgc ccaacctaca ccaacctcaa caggcttgtc tccc 414

<210> 9389

<211> 94

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-A3

<400> 9389

agcatgcttg ttatgcttat tttatcagag gattatcggc tgtaataata gtggttagga 60
gtcatggaat tgttacaaaa caagcagttc ttgt 94

<210> 9390

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-A4

<400> 9390

gctacgcgtc cggctacatg ccatattatc tggggctttg caaggctatg gactgagcta 60
ggcacagatg ttttaacttat gaaatggcac gactgccatc atgtcggaca ttacagttca 120
catgagattg aatacaagaa tgctgtaaat gatgctttga agaccgctct tgataccttc 180
tgactctgta accaactata tgactcagat atggatggcg accaggagta ttagatagcg 240
cacttactgt gcactctaca caatgctgca gacaattcaa atgagagctt aagaagggtt 300
gctgacagtt ctagegatca ctgtttgttg cctagtgcga aggatcatga tcaatc 356

<210> 9391

<211> 323
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-046-Q1-K1-A7

 <400> 9391

 aggacaccta cgaatgttta catcattagc agcacccttt attcatgagt gacttggtgc 60
 attacagagg gagaatttat tttcagataa acatgtccaa ccttaatgtc agatttatat 120
 taatacccg aactgtaact ttgtgctcta ttcagagcac atcatcccag agaaccaata 180
 atttctacta ccaattgtgc actgagtcca ttacgcctac ctttgcgacc cggacatcca 240
 atatgcaatt tctacaatcg ctactgcatg tgcaagatcc gaccagattg cacattacat 300
 cacccaatgt gaaatgccat gta 323

<210> 9392
 <211> 413
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-046-Q1-K1-A8

 <400> 9392

 gattgggaca gtggtggcac agaaggaatc tgaaccagag aaacaggaga ctcgccaacg 60
 gggtgaggag gacaggaaac ctcagatcga agcagccatt gtcaggatca tgaaatcacg 120
 gaggggtgttg gatcataaca gcattgtagc tgagggtcacc aagcaattgc aagcccgttt 180
 cttgccaaat cctgttgtca taaagaaacg cattgaatct ctgattgaac gagagttctt 240
 ggaaagagac aaagtagata gaaaattata tcgttatctt gcatagaaaa ctgtcatgag 300
 ataattcatt agcagttggc atccttctgc tcttgtaaaa cggttttctt tatgctcgag 360
 ttctctntta tcagttgcat ttggccgctg gggtcataga tgttcaaaca ttg 413

<210> 9393
 <211> 375
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-046-Q1-K1-B1

<400> 9393

gggaggacga tctaaatgaa attgtgcagc ttgttggtaa agatgcgctg gcagaggctg 60
acgggattac actggagaca gcaaagctac tgagagaaga ttatttggca caaatgcat 120
ttaccccata tgataagttc tgcccattct acaaatccgt ttggatgatg cgcaatatta 180
ttcacttcaa cacattggca aatcaggctg tggagcgggc agctgggtact gatggccaaa 240
agataacata cgggtgcata aaacaccgtt tgggcgatct attttatcgc ctagtatctc 300
aaaagttcga ggatcctgcc gaaggtgaag aagctttggt cggcaaattt aagaaactgg 360
atgatgacct nacca 375

<210> 9394

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-B10

<400> 9394

cccacgcgtc cgcccactcg tccgcccacg cgtccgcgga cgcgtggggt tccagatatt 60
cgcagttgac cgggtcctcg gagcacgatg aagtttggtg ctgcctactt gcttgctgtc 120
ctcgtggtga acgccagccc ctccgctgag gatttgactg ccattctgga gtcagttggc 180
tgtgaagttg acaatgaaag gatggaactc ctgctgtccc aactgagcgg taaggacatc 240
accgagctca ttgccgcggg cagggagaag tttgcttcag tcccatgtgg tggcgggtgt 300
gtcgtgtgtg cggcagcttc acctgctgct ggccgagctg ctctacagc tgatgcaaag 360
aaagaagaga aggtggaaga gaaggaagaa agcgatgatg atatgggctt cagcctctt 419

<210> 9395

<211> 243

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-B11

<400> 9395

tcttcttttg gctcaacatc gtcgaggtca cccgccatgg cgataatctc gagttctccg 60
tcggcatcgc ctccggggac ttcgggattg acaacttcct cgagtggcca acctgtggct 120

gcgggttcga ctgcaacgac ctgctcatgc tccagaaggc ggtggcagcc accgccaggc 180
 tgccctcgcg agtgccttct aaaattccac tcatgcaaat ccagatggga tagaagttca 240
 gac 243

<210> 9396
 <211> 416
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-046-Q1-K1-B12
 <400> 9396

atcaatgcc a tgaacaagct tagcaccaag aagccatggg cctgtcctt ctcgttcggc 60
 cgtgccttag atgcgagcac cctgaaggcc tgggctggca aggcggagaa cgtggataac 120

gctagagcgg ccttcctcgc ctggtgcaag gccaaactccg aggctaccct aggcacctac 180
 aatggtgatg ctggcgtcga caccgagagc cttcacgtaa aggactacaa gtactgactt 240
 gcttctcttt gagatcccg agtattggaa ctctgcctg cgagtagggt gctgagtgtg 300
 gggtgcttgt tagagctatt atattctgac atgaaaaaaa catgcttcct atgtggatga 360
 tggttatcta tatattcgta tattaactac tagtctctgt tgtaatttc cgtgta 416

<210> 9397
 <211> 416
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-046-Q1-K1-B2
 <400> 9397

agcgactcct ctgctgagg cctgccgtca tccccctgg gccgtggccg tggcctggc 60
 cgtgcgcaaa aaaacaaacc atcctcgatt cgaccggagg ggaaggagac gcgccgggag 120
 aagggggaag agacggggcg accatgtctc cgatctgggt gttcgggtac ggctcgctga 180
 tctggaaccc aggttcgcc tacgacgacc gcgtcgtcgg ctttgtcagg gactaccgcc 240
 gcgtcttcta ccaagggagc acggaccaca ggggcacgcc gcagttcccc gggaggaccg 300
 tcacgtcga gcaccaaccc ggaacgactt gctgggaagt ggcttacaga ataaaggagg 360
 aagataagga gatagctttg gagtatcttg aggtcagggg gaagcaatat gatgag 416

<210> 9398
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-B3

<400> 9398

```

cccacgcgta cgtccacgcg tccgcccacg cgttcgagca tctaacaatgg attacgacca 60
ggagatcaat gctgtgctca agaaggtgga gcctaagtct cacaagatag tggaacatcg 120
caggaagtat gagaggttga gaaaagagag ggaggaaaag agagcgcagc gtgatcggct 180
tcgtcaacgt gcagaggcgc aggctgctta cgacaaggcc aagaggaagg agcaatcgtc 240
aagtcgctca tcaggaggtg catctaccag aggctttcct tggaggatgc cctgtgggtg 300
gttccttaga gggatgcccg gtggaggttt ccccgggggt ggcatgcctg ggggtttccc 360
tggggggtggc atgcctggag gtttccttgg tgggtgtccc ggtaatgttg atatg 415

```

<210> 9399
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-H7

<400> 9399

```

ctccatcgta tctgttcgac gagatcgatg ctgctctgga tccacaatac cgggcagcag 60
ttggaaatat gatccgccgt ctagctgaca tggctgacac tcagttcatt gcgaccacat 120
tccggccaga gattgctaaa gtggctgata agatatatgc cgtgagacac aagaataggg 180
tgagcaacat cgacgtggtg tccaaggagg aggccttggga cttcatcgag cgtgatcaga 240
cgtacaatgc tagctgaggc tgctgctgct gtgtattgat tgatctgcag gcagatgcta 300
acgcagacag gatagttctt gttgcgttat ggatattctg gcctattgtt gtagctgtgt 360
atatgtgtga tgcagttagg tagctattgg accagcttgt ttggcgcac aac 413

```

<210> 9400
 <211> 318
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-G11

<400> 9400

ctcagtcggt acactacccg ttgtctttcg agatacgggt atttaaaatg atgcaggaga 60
acctattgga tcttacagct atgtagacta aggactgata tgggtctcgac cagtggacac 120
taacattacc atctgctgca tgaacgattg acttatgtat caagaggatg atataatata 180
tagtatacaa tgaacgtcga tgcaatacag tcaaaatgga ctagataatt accgcacaca 240
tagcataatt atatatacga ttgaccgtcg aggaattgat aaggatcaac cagaagttga 300
aaaatatcac ttaatgaa 318

<210> 9401

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-G12

<400> 9401

cccacgcgtc cgcgagcgcg tgggatctgg tggtagcagc acatggcggc caccaggagc 60
aagtcgtcgt cgtcctcgag ctcggcgagc cgggcagctg ccgcactgct cgtggccgcc 120
gccgtggcgg tgtccgtcct ggtggtgggc gcggcgggcg tgtgcgacat gagcaacgag 180
cagttcatgt cgtgccagcc cgcgcgggcc aagacgacgg acccgccggc cgagccgtcg 240
caggcgtgct gcgacgcgct ggcggggggc gacctcaagt gcctgtgcgg ctacaagaac 300
tcgccgtgga tgggcgtcta caacatcgac cccaagcgcg ccatggagct tccggccaag 360
tgcggccttg ccacgcc 377

<210> 9402

<211> 422

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-045-Q1-K1-G2

<400> 9402

gctcggaag tatcgggcgg ggcaatcgct gcaggctaga gcctcgttgc tgaggggggg 60
agatggcggg tatgggcgat atgccgatga ggccggcgcg gccgggcccg ccgatgcagc 120

accgtggtcc gccccgatg ggcgccttc gccccgaacc aatcgaccgc gagaagacct 180
gtcctctgct gctcagggtt ttcacaaggg ttgctggtca ccacaaaat gaagagtttg 240
cagtgaagagg gaaggaacca aaggatgaag ttcagattta cacatggaag gatgcgaccc 300
tncgcgagct cactgatctt gtgaaagagg ttgctcttcc agcaagaaaa aggaatgcaa 360
ggctttcttt tgcatttgta taccagaca agaatggtcg ttatgttgtc agacaggtgg 420
gg 422

<210> 9403
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-G3

<400> 9403

ccgacgcgta cgcagaagat ggaggttccg tttgccttac cccatccgtg aatcggttg 60
agcatcggat gacgaggagg aagacatccg gaaaatcggg gagaacctgg tgcagacgca 120
ggcgctcatg aacgcgctcg cgtactcgct gaagaacgtt ctgcagaagg tgatgccgga 180
gctgtggaag gacatcaacc acaagatcca ccagaactgg atctataact ggatcttcct 240
cacgctcttc gtcagcacct acgactacgc cttgtaatac accgtgtatg acaaggttta 300
cgacaagttt tacatgagat gttatatgca ctgagcttta gagactgaca ttggatttaa 360
catttgcatg atcaagttta gttaaccgcc tatatgtatg tatatattc 409

<210> 9404
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-G4

<400> 9404

cagaggggcc tacttaacag ggagtcagag gaatctgacg aagaagagaa ctactgttcc 60
attgaattga cgccaagttt gtttacatct gctgtcgata atgcatacca gtccatacat 120
gaattttcaa agcctttgat caacatgatg aaggctgcag gttgggatct tgatggggct 180
gccaatgcga tcgaacctgg tgtggtttac acaagaaggg ctcacaagaa gtttgctttt 240

gaatcctata tttgccaaag aatgttcagt gggttccaag aggagagctt ttctatcaag 300
gattctaaca tcagtgtttc caatgaggct ttcttccacc aattccttgc agtgcgagcc 360
atggatcctc tggatgtcct gagccagaac cctgattcag tattcggaag gttctgt 417

<210> 9405
<211> 412
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-045-Q1-K1-G5

<400> 9405

aggattggga tcgtcaaaat ccaacacaaa ttgtaacgga gatgtgcggc ttcgttgcaa 60

tcctttctgg aacttttctt cttcacaaga caaaggatat ggtggatggt atgtcgtaca 120
tttaogcccc ttttgacctg taactactca cgttcataat gtcttattgg ttcgcgtcgt 180
gacaggcttc ccaccaaatt taccgattcg gcttcctaaa catgcggatg aggacggcta 240
cgctgctgaa ggaattcctc tcagatccgc tgctgacggc attccgctca ggtcaccaag 300
ggctacagat tcatttcgct cgcatgatg ccccgctgag atttgcattg gcaactcaat 360
cgtgtcactt gaaggctcat acccagcang cgtcagtcct atatatacat gg 412

<210> 9406
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-G6

<400> 9406

caacaagcaa catagaaagt ggaatccagt agcaacaata gagcaacaat ggagaccaag 60
atattttccc tccttatgct ctttgctctt tctacatgtg ttgctaacgc gacaattttc 120
cctcaatgct cacaagctcc tatagcttcc ctttttcccc cataccttcc atcaattata 180
gcttcagtat gtgaaaaccc agctcttcaa ccatataggc ttcaacaagc aatcgagca 240
agcaacatac ctttatcgcc cttgttgtgt caacaatcgc cagccctatc tttggtgcag 300
tcattggtag aaaccatcag ggcacaacag ctgcagcaac tcgtgctacc tgtgatcaac 360

caagtagctc tggcaaacct ttctccctac tctccgcaac aacaatttct tccattc 417

<210> 9407
<211> 238
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-G7

<400> 9407

cacaacgtcc ttccacagag accatctacg tctgatcttc gccggacagc agatagggga 60

tggtcttacc ctagcagact acaagatcca taaagagagc actctacagc tggtactaca 120

cctccacggg ggtcagctag ccatgcttca cttatactgc tgttgaacct atgtatcagc 180

gtcgtcttgt gccaaactggg gtacctatat atagatgtag tcctctaata aacatctg 238

<210> 9408
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-G9

<400> 9408

cccacacctg gcaatacgtg gggattctgg aaccctagcg cctgatctcc gcggcagcgg 60

ccgaaatggc gaatcctgta gcggggctgc aggaccacct caagctcgcg cgggactaca 120

cgctctaggg cctctacgac acctgcatca tcttcttcga cggcgccatc gtgcagatca 180

acaagcatct aactactttg gacgatgctc tgattcgac gaaatggatg aactgcaaga 240

aagcaatctc tgaagaagtg gaaattgtga aacaggtgga tgctcaatta aagtccctta 300

aagaagctcc tgcgacacgg cggatcatcat cacctgctat tcgggctaata aatcatttg 360

ttttccaacc gttggatgag tatgcaacat cttcaccagc accctttgat gatcctgatg 420

agtg 424

<210> 9409
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-H10

<400> 9409

cggacgcgtg ggtttctccc tactctcagc aacaacaatt tcttccattc aaccaactgt 60
ctacactgaa ccttgcgtgt tatttgcagc aacaactatt accatttagc cagctagcta 120
ctgcctactc tcagcaacaa caacttcttc catttaacca attggccgca ctgaaccccg 180
ctgcttattt gcagcagcaa atactactac catttagcca gctagctgca gcataccgtg 240
cttccttctt gacacagcaa cagttgctgc ctttctacca gcagtttgcg gctaaccccg 300
caaccctgtt acaactacaa caattgttgc cctttgtcca acttgctttg acagaccag 360
cggactccta ccaacaacac atcattggtg gtgccctctt tt 402

<210> 9410

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-H11

<400> 9410

gtgacacctg ttggtagaaa gaacctttaa agatacggaa cgtgtcattc atggtcaaag 60
cggtaacctgt gctggataac atgttgcatt agtatcggcg caacttataa cacattgtca 120
aatgggacta tgggagtcca aaacatatta catttaacca attggacgaa ctgaaaccac 180
gatgattatt tgcagcagaa aatactacta accatttagc cagctagctg caagcaaacc 240
gagcttaaatt tgggacacca gttcaagggt ccgaatttat actagcagtg agcggataac 300
caagcatccc tattacgact acaacaatga gtgcacgtac gtgcaacttg caatgacaga 360
cccagcaaac ccctaccatc aacacat 387

<210> 9411

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-H2

<400> 9411

ggatgagcag ctacaccaac aaccttaaaa ttttgatggg cgacggtcga cttctgggct 60
cgaagaggtt attatgggat gtagttcgag gaggtccaaa agagcggaag catctggccc 120

aggtggaaac aaggagagca gaggatggca gtacccatcc ttctggccat ctggcagcca 180
acaggatcat catgggtaga agagcagcaa cacatccctg cctggcactg tatgtgccgc 240
accacctttg catgaagcca accttggaga gggcaaccga aagcagagag acacctgaca 300
tcatcattac tagctacat gataagatca tcatataaac ctagctacac tgtcgtacct 360
accatatcta ggcttacaat 380

<210> 9412
<211> 410
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-045-Q1-K1-H3
<400> 9412

gaattcccg tgcaccagct ccgcgacgct ccgacagctg tctcttcata tcacacctgt 60
actccacaag agacttccta ggagctatat caactctccg agccttgaca agacagggtg 120
agagttgacg gacaaaccaa gctggatgca cagccagagc tggtatccac attgtcccg 180
aaggccaaca cacactgcaa tcatcgacag tgcattggta tgaccaatca gaccttgtga 240
caaccttggc accattgcgc ggtcaggcac gaaggaattc atggaggcac ttgctgctgg 300
tgctgatgtg tccatgattg gccagtttgc tgctggtttc tactctgcct accttgttgc 360
agatagggtt gtcgtgacca ctaagcaca tgatgatgag caatacgtgt 410

<210> 9413
<211> 308
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-045-Q1-K1-G10
<400> 9413

ctctgtcgat attctgacca atgacttagg agctgctgtt gcttcaaatg atgcaggaga 60
acctattggc tctaacatct atgttgctgg tggaatgatt aaggacacac cgagtggaaa 120
ctacattcta tcagctgcct gatccattga gttatgtccc ataagacgat atagtatatg 180
ctataaaagc catcgccgtc acacataggg aaaatggacc aactgattac cgcattgata 240
gcatgattaa gtatacagat tgaccgtcgt ggaatagata ggtatcggac tgaagttgaa 300

aaatatta

308

<210> 9414
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-E5

<400> 9414

cccacgcgtc cgaaagcaat cacccgagca aagcagtgcg gagcgacgat ccagcggcat 60
ttcgcattcg acgaacgaag cgccgccatc tgatccgaca cgcagcgcaa tggcggcgagg 120
actgaagagg ccgtcgttcg ggacgcgggc gtggcggctg ctgcggctgg cgggtgctgtg 180
ggcgcggaag ggcggcgagg cgcacagcct gcgcctgcgc ctgctccgca cgctccgccc 240
ccacggccac ggcctcgccg gcctggggcg cgcgcgaggc gaccggctcc gctgcggcga 300
gcgcgagtac tccatcgacg agacgcgggc gttccggttc cgcaccccgt ccgcgcgcgt 360
gtccgtctc atcccctgca tcgcgcgggc cgtgccggac acgccggggc 410

<210> 9415
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-E6

<400> 9415

cgaggtctat gcatggacac cagtaaagat ctcaaaggc aattactttc tggtaaaagg 60
gctactgaag acggaagcat attgctctct gctgcagtgc caatttttca tcaatctttt 120
gatccaatcc gtgaagctct cactggtaga gatctgattc ctgagatggg taacgggtaa 180
gataaccgaa caacactttg ttttggaggc atgcataagg tcctcatctc atgtaaatgt 240
accaggaggg gacctaagga gggaatgccg gggcaagatt acagtggaat gtactgcgca 300
ctgttaactg tgggctctac cgaggtgtca gcagcacttc tgcgtgtaat gggaggcgat 360
gtggccgagc tgccactagt tgctacaagc caggatgttc aagggctggg ctactt 416

<210> 9416
<211> 179
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-E7

<400> 9416

ctcaatcatt ccacgcgcc atccatagct tcataccaat tcttgatcgt gcagctgctg 60
gtggcagcct gagaccagac acgaggatgc tgaccgagtt cagcggctat gagttggagg 120
tatccagagg agctagtgtt ggctgctaga catacgactt ctgccaagac taacgctta 179

<210> 9417

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-E8

<400> 9417

gccacgcata cgttccccta ttgtatggct tcatccaaag ccactactgg ggagtggggtt 60
tcttgaggta cttccaagtg aagcagctgc cgaactttct cttggcctca ccagtgcttt 120
ctctcgcggt ttattctatt gtccattacg caaaactgct tcaccgggtgt ttccagagaa 180
ctagcgtcca cagcagatt atcactgctc tagagaaaag gccagtgtgtg tcgtatagaa 240
gatcagatga cgcgacaatt ttgagtgaac ctctgctgg actcaccaag aaagcacaag 300
ggagctctaa ggctaaacag agaaaaccag ttgctaccga gatagctcct gcgacattgc 360
atgacagtac cagccagct aacccaaaca tctaagagga tcaggacgcg tgctc 415

<210> 9418

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-E9

<400> 9418

gagatgctga agtacgctat ctgcatagac tcaaaggggc acaagttgca ccagatgctg 60
tcaacactgg ctataaagct gatgatttcg ctgatgacgc actctacaaa aaagagctga 120
ccgaggatcc ttatgatcag agcatectat atgaagtgga ctaagacttc agaattgtatc 180
ggctctggcag gactgatagg aagaaatgac ctgatgacaa tgagtctata gaagattacg 240

aatgttatat gggtgaaatg attcagcgaa cgaaagctga ttgatctcca gatgggatga. 300
 ttgactgcta atgtcttaca tcgagacata gaggctttca aagcatgggt ggggatggcg 360
 aatgata 367

<210> 9419
 <211> 413
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-045-Q1-K1-F1
 <400> 9419

cggacgcgtg ggctcgggaa ctggattcct gtgtcaacag atctattgat gacagcctca 60
 gggtccttcc gcatgtgggtg gatcagatca agtccaccct caaaatcaat tagaggcact 120
 attactttta gcaaatgaac cagatatagt tgagaatggt tcatattcac attcgctgca 180
 taactccaca ttttcagagc tcttaccgat attgatagaa catgatcacc ctatcgtagt 240
 tttttggatt ctgctcttac cacctagtcc tggcatgtca acagcgtcga cattttgaac 300
 tctactgaga acacagctta ggcattgaaa ggctggatga acttggtgtg ctacatgtac 360
 aagaatactc ttacgtcttg tgattaaaaa aaaaataaat aaaataaata aat 413

<210> 9420
 <211> 408
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-045-Q1-K1-F10
 <400> 9420

cgcaccaag cccgtgccag ctgcatggaa cctgcggcgt tggcagcacc ccgatgggtg 60
 gccagtgcgt cgagtttctg aggcattcagt gcagcccgac ggcgacgcc tactgctcgc 120
 ctcaagtcca gtcgttgccg cagcagtgtt gccagcagct caggcaggtg gagccgcagc 180
 accggtacca ggcgatcttc ggcttggtcc tacagtccat cctgcagcag ccgactccat 240
 gcccctacgc tgctgccggc ggtgtccgac actgaagaaa ctatgtgctg tagtatagcc 300
 gctggctagc tagctagtgt agtcattcag cggctacgat tgagtgataa tgtgtcacgc 360
 atcaccatgg gtggcacagt cagtgtgagc aatgacctga atgaacaa 408

<210> 9421
 <211> 380
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-F11

<400> 9421

ctcacgcgtc cgactacccg ttcggtttaa tcgctggagt gcataacaat gtgttggaat 60
 tcgtaatcaa agaaatatgc atgactggta acatcgctat gagacatgaa atgatgggtg 120
 caacagccca tttctggcga tatcgtgctg cttattaccc agacctgatt gaagcgttga 180
 cgatacatgc accgacattt gtatatagga caaattacgt catttctagt caaacataca 240
 atgctttctac tgatgcctat gctgtggaat catacgatag ctatttactg aaccatgtac 300
 tctatgctca ttgcagtgtt ctggatgaag atgatgcgac tgaacatcga tcggatactc 360
 tttccattct tgtgaatgac 380

<210> 9422
 <211> 412
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-F2

<400> 9422

ggacgacagc tcggcaacga ctgtttcgac cgtcgctgcc gtcctacttg ccgggtggtg 60
 agatcttctt cggcccgtaa gccgacgacg agcaccacca gggcaaccag atacttcagt 120
 ggcttcgcaa ggatgtcctg gtgcactatt gagtctgac ctggtgtgtt cactgagctg 180
 attcagcaaa tgcaagtga aggtgtacag gttgaagagc tttactctct cgatgtgggc 240
 tctcttagtc aactgcggcc agtatatggg ctaattattc tcttcaagt gatacccggc 300
 gagaacgatg aacggctctgt tgtcagagat cctaaccxaa accttttctt tgcgaccaa 360
 gtcacacta atgcatgtgc tactcaagct attctctcag ttctcatgaa tc 412

<210> 9423
 <211> 412
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-F4

<400> 9423

agtcagtcag cttcagcacc acgagcacga tggccctcgc gctcgccacg accccggtcg 60
cgcatctcgc ccttgccccg ccctcgatct tgggtccca atcctcgctg ctgctgctcc 120
cgcgccgcgc gtcgccccgc cccgtctccc tctctcacgc ccgcatcatc ggggccgctg 180
cgaccaagga acccgagctc ggcggcgggc gatcgggggc eggcgacggt gccggaggga 240
gcggcgggcg cagcgacccg aggggaggag ggcaggaagg agacggggag gaagagaaga 300
tggggcaggg cctgtccatg tgcagaaaac tcaccctcgc ctacgccgcg ctgctcgag 360
ctggtggtgt aatgggatat atgaagagtg gaagccagaa atccttggct gc 412

<210> 9424

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-F6

<400> 9424

cccacgcgtc cgcggaacgc tggggtaggg agaaaggttt gccagagcta ctctcagcaa 60
caacaatttc ttccattcaa ccaactgtct aactgaacc ctgctgctta tttgcagcaa 120
caactattac catttagcca gctagctact gcctactctc agcaacaaca acttcttcca 180
tttaaccaat tggcgtact gaaccccgct gcttatttgc agcagcaaact actactacca 240
tttagccagc tagctgcagc aaaccgtgct tcttcttga cacagcaaca gttgctgcct 300
ttctaccagc agtttgcggc taaccccgca accctcttac aactacaaca attgttgccc 360
tttgtccaac ttgctttgac agaccagcg gcctgctacc aacaacacat cattg 415

<210> 9425

<211> 108

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-F7

<400> 9425

cccacacgta ccatcacaag ttgagtttta acaaagattt gccagaattc cggtcgggaa 60

ttacaatcac ttaccttgct actaattaca taaatgaatt attctaca

108

<210> 9426

<211> 267

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-F8

<400> 9426

cccacgcgtc cgagtagcgc ttggattaaa aaaaacaaaa acataactgc gggaaggaaa 60

acgtaaggga aaatcttgca acgaagctga aaggaccagt acagatcaca tgattctaca 120

ctccactacc atctatagca cgctaggggt gatcttctat caagtccaag ttgaactgat 180

cagtattcac aatggctacg attgatcatg gtgtaatttg catgcaatgt atgacctgtt 240

ggagaacaac tgctgatgag gtagaac

267

<210> 9427

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-E2

<400> 9427

ggaaccactc ctttttcac cctgtggtaag tacggcctg gttgagaacc gccaggggta 60

tcttatcacc agcatccaga acaaggcaca cgaactggca aactgtccaa tgctcgtgac 120

gttgtgtgag gaagctggag agatcctctc gaacatgaat catccagcaa gtgattgacc 180

atggtgtcta tatccgtaa tgtgagagga taaggttgac tctgaggtag catctatgaa 240

gccgatgtca tgctaccatt gctgccacag tgactgcatt atgagatggt gggaatggct 300

ccaacatggt gacacacacc cagaggagca cactactgga gtcatacta gcattataat 360

gtgaatcacc caagacgatt ttgtactgta tgccgcacag tgttcgatga gaaggatatt 420

<210> 9428

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-D1

<400> 9428

aaatattttg gccccctata cccattgagc caattggaaa tgcttcttcc ggctgcaatt 60
ttcccgcaaa gttaccagcc tccttatcat acatttttat cgcgtacctt ttaccagcgt 120
tgactctcaa atgtgaaaac ccaattcttc aaccctacac gatccaacat tctatggcat 180
cacgcatctt acctttatca cccatgatcc ttcaacaatc atcaggccta ttacagccta 240
tccatttggt gcattttattg gcgcaaaaca ttatggcaca acaactcgtg ctagcaaacc 300

<210> 9429

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-D10

<400> 9429

gccacgcata agaaaaccta ctccattgct cttttcttat agccgccgcc ggaacggggtt 60
gctagcgctc tgagctctca tactagcgtc cgtggaaggt cgtctagaca tggctctccga 120
gacggagacg ttcgtctacc agacggagat caaccagctg ctatcgctca tcatcaaacac 180
cttgactacc aacacggaga tctaacttag ggagctcatt tcaaactact acgatgcata 240
gaataagatc aggttcgata gttagacgga caatagcaag ctggatgcc atcctgagca 300
tttaatccac atcgctcactg acaaggccaa caatactctg acaatgattg acagtgtcat 360
aggtatgacc aagtcagacc tagggaacaa ccttggtgcc attgcacgat ctggcaca 418

<210> 9430

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-D11

<400> 9430

cgctgaagtc cacatgctag acatcgagt cttctccttc ctgaaccgcg cgttgggaaa 60
cgacatggcg ccgatcttag taatcgcaac gaaccgagg atcacgtata tccgcgggac 120
aaactaccgc tcgccgaatg ggatcccgcc agacttcctt gaccggctac tgattatcac 180
gacgcacccc tacacggagg atgagatccg gaagatcctg gatatccggt gcgacgagga 240

agacgtggag atgtccgctg acgccaaggt tctgctcacc aagattggtg tggagacctc 300
tctgcggtat gccatcaacc ttatcacatc tgccgcgcta gcctgccaga ggcgcaaggg 360
gaaggtggtc gagatggagg acattagccg ggtgtaccaa ctgctcctgg acgtgaagcg 420
g 421

<210> 9431
<211> 196
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-045-Q1-K1-D12
<400> 9431

cccacgcgtc cgaaaaaaaa aaatatatag aaaatacata gaaaagataa cggaacggaa 60

aaaaacaaga catgataaca agctaacctt tactacaaat aaaacatcat acgatatcat 120
ctataatata ttacgcatgt taaaactgag ctattcaatc atatacgctt cagcaagcaa 180
tctcagcacg caacat 196

<210> 9432
<211> 386
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-045-Q1-K1-D2
<400> 9432

cgaacgcgtc cgcgttgaca accgctaaat cgtttccgcg tcccgcgaca ggacgggtaa 60
gctctggaac accctcggtg agtgcaagta caccatcgga ggtgacctcg gtggcggcga 120
gggccacaac ggggtgggtct actgcgtcag gttctcccca aacacatttc agcccacat 180
tgtctccggt tcctgggacc gcaccgtcaa ggtctggaac cttacgaact gcaagctgcg 240
cttcactctc gatggatcat gcggatatgt taacgccgct gtcgtgagcc ccgatggatc 300
gctctgcgcc tacggcgggg aggacggtgt tactctgctg tgggatttgg ctgatgggaa 360
gaggctgtac tcgctggatg cgggct 386

<210> 9433
<211> 407
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-D5

<400> 9433

ccctgctgct tatttgcagc aacaactatt accattcagc cagctagcta ctgccgactc 60
tcagcaacaa caacttcttc catttaacca attggccgca ctgaaccccg ctgcttattt 120
gcagcagcaa atactactac catttagcca gctagctgca gcaaaccgtg cttccttctt 180
gacacagcaa cagttgctgc ctttctacca gcagtttgcg gctaaccccg caaccctctt 240
acaactacaa caattgttgc cctttgtcca acttgctttg acagaccag cggcctccta 300
ccaacaacac atcattgggtg gtgccctctt ttagattgct tattagttgt aattcattat 360
taaagttttt tggatgatgt atgtggccaa ccagaaataa gaagtta 407

<210> 9434

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-D6

<400> 9434

cagaaacaca ccaagcgaag cacattagca acaacctaac aacaatggct accaagatat 60
tatccctcct tgcgcttctt gcgctttttg cgagcgcaac aaatgcgttc attattccac 120
aatgctcact tgctccaagt tccattatta cacagttcct cccaccagtt acttcaatgg 180
gcttcgaaca cccagctgtg caagcctata ggctacaaca agcaattgcg gcgagcgtct 240
tacaacaacc aatttcccag ttgcaacaac aatccttggc acatctaaca atacaaacca 300
tcgcaacgca acagcaacaa caattcctac cagcactgag ccacctagcc atgggtgaacc 360
ctgccgccta cttgcaacag cagttgcttg catcaaacc ctttgctctg gcaaa 415

<210> 9435

<211> 243

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-D7

<400> 9435

cccacgcgtc cgctcacaga gttcattgct taacagcaag cctgactcgc cgagatgctg 60
 ataggatcct gctgctacat tcgcccattgt tccacgcgtc tcaggtctta ttagccgcat 120
 gccactcatg agcttgaata tgcatactca tagagcatgt catgagtata taatgacata 180
 gacagagagg agccgtaagt gtaaatacag gaaggttata tgctatatat gcgacgatca 240
 aaa 243

<210> 9436
 <211> 416
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-045-Q1-K1-D9
 <400> 9436

gaaaaggccc tgatcattgg tataaaggag aggtcgttgg gctggcgact cgcattggatg 60
 aatttttact gtgtgcgagg cacttctggg agccggggac cgtccgcggg aaggcatggc 120
 acagttggct ctttaagcttt cctgactttt ggttcttcta cattgaggct gttgaccatg 180
 gagccttttt ttttgagtag tagaagtatg caaattgaac catggaagtt ctatacgacc 240
 cacaatccgg gtcaacattt tgtttagatg atacatgtct ggtagttctc tgttgtcttc 300
 ctggtcgacc cgaactcctt attaagagct gatacttggg acccatggta tgcattgtgaa 360
 attctgctcc atgtacagag agtagaaaag aaaatgaaag ccgtgctagc tgttat 416

<210> 9437
 <211> 367
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-045-Q1-K1-E10
 <400> 9437

cccacgcgta cgcttacctt tatcaccctt gttcctccaa caatcatcag cgctatgaca 60
 gcagttacct ttggtgcatt taatggcacc aacattcgg gcaccaccac ctacaacaac 120
 ttgtgctagc aaaccttgct gcctactctc agcaacagca gtttcttcca ttaaaccaac 180
 tagctgcatt gaactctgct gctaatttgc aacaccaact accattcagc cagctagctg 240
 ctgcctaccc ccaacaattt cttccattca accaactggc atcattgaac tctcctgctt 300

atacacagca ggcacatctt atacaatata cccatatctc tgggtgagagc tgttggtgtt 360
 ttttcac 367

<210> 9438
 <211> 412
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-045-Q1-K1-E11
 <400> 9438

cactgcctta cgtgggccag gtctgagttt gagggcttac ttgagaagac tggcagggaa 60
 gtaaattgctt tcctgtcgaa ccctggcgga tatgcaaccg cagcaagaac tgctggtgat 120
 gcacaggcta gggatcaact tgagcgagtt attgaatgcc ttgagacaga caagtgtgag 180

acattccaag actgtattac ctgagcccgg ctttaagctag aggattatct ctgcaaccgt 240
 gtcaagcagc tgacattcac ttacccgaa gatgcaatga ctagctcctg tgctccttac 300
 tgatctgctc ctaagcgggt cccgcgacct ctgcagttct cgtctagcga ctcaagtcac 360
 cttaacttct tgatggctgc atctgtatta atggcagaga catgtggaat ac 412

<210> 9439
 <211> 411
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-045-Q1-K1-E12
 <400> 9439

aatatcttgg tctccattgt tgctctattg ttgctacatg tgttgctaac ggcagcattt 60
 tccttaattg ctaacaggct ccaatagctt ccttttttcc ccaatacttt ccatcaataa 120
 tagcttcagt ttgtgaaaac caagctctta aaccatatag gcttaaacia gcaatcgag 180
 caagcaacat acctttatcg cccttggtgt gtcaacaatc gccagcccta tctttggtgc 240
 agtcattggt acaaaccatc agcacacaac atgtagaaac tctcgctcta cgtgatatca 300
 accaagcatc tggggcaaac ctttcttact actctcagca acaacttttt ctattataca 360
 aacaacttac tatgctgaac gctgcttatt atatgcaaca actattacca a 411

<210> 9440

<211> 401
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-045-Q1-K1-C9

 <400> 9440

 cacacgcgtg cgcattgaac cattctaact atgggaacgc agctgcaaca agcactgggc 60
 gacgtagcca cggtgtactc tatcgcttac ttggaacaac tgctgggtgc attcaaccga 120
 ctcgctttgg caaacgtagc tgcatacaca caacaacaac atgttgcaac agttgggtgc 180
 agggctcaat caactagtca tgggtgaacat ctatcgacta cctacaacag cggcagcttg 240
 catcatttag cccgatcact attggcaatg catgtacata catgcaataa caggcggttg 300
 aacaactgaa gctgtaacaa attgtaccag ctcttactga gctagctgac tcaaaccctg 360

ctgcctactt gccacatcta cttgcattca accaactgac t 401

<210> 9441
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-045-Q1-K1-B5

 <400> 9441

 aaggatccca ggcagatatc tggccatcta cttattcaaa atgcagagtc aactgtttac 60
 cagacctcat agtgtttcct aaactaaaac tgctcgacac aagcagctag caattctcca 120
 catagagaat gttacgcaac agtacaataa tatagtaaca catcttcagg aaagtattag 180
 caggaagagt tgtcacagaa atgttctcaa aacggcctaa aagggtgcag gcatgggcaa 240
 gcggaacaac tttcaatcac aagttcttga acgcagactc atgaggaagc ttctgcggcg 300
 ttagcctagc caacaatgcc ttgttcgaga agtggtcagc atcaacaaag tagaagttcc 360
 cctcagcctt aaaggtgaca aagggcctgt ttgtttcagg aggcctg 407

<210> 9442
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-045-Q1-K1-B7

<400> 9442

attctcatcc ccgacccccg caccgcagcg taaaccctag tccccggcgg cgaccgggcg 60
gcctccgctg cgctctgact ggtgcgcgtt tagacgagga gctgcggcgg ccaagaccaa 120
tcgaccatgg ctaccggtat ccagtttgag aacaactgtg aaattggtgt tttctccaag 180
ctgacaaatg cttactgtct ggtagcgatt ggagggtcag agaacttcta cagtgccttt 240
gaggctgagc ttgcagatgc catccctgtg gtcaagacct ctattggtgg cactagaata 300
ataggccgac tttgtgttgg aaacaagaat ggacttctat tgccacatac tacaaccgac 360
caagagcttc agcatctgag gaattgcttg cctgatcaag tggtggttca 410

<210> 9443

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-B8

<400> 9443

cccacgcgtc cgatatgatac aaaacgaata cgaagagttg tggagaaaag cgactgaccg 60
gaagcctgtg agcagacaaa gacacttgcg aagtgcatac aagcgctatg ttacagaggc 120
aatcgggctg tcatatctcg attattaccc tgatctagcc gtacaaataa agtcatctga 180
tcgtgataag agactgagcc tactacgaag gttcttcttc tggttggaga acttgtgcca 240
tgaggagacc tacatgccct ggatctccaa acctctagct tgcaacccca tttcaccgga 300
tggatgaata tgaaccgacg ccactctca tctcaagac acacgaagat gagccctagg 360
ggtgagcggc tagcagagat ttgcttgacg catccctgca tctctgatgc tacttg 416

<210> 9444

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-B9

<400> 9444

cccacgcgtc cgcattccgc ctccaaaccc gaactccaag tcgccccgca tcgatggcgc 60
ccaaggccga gaagaagccc gcggcgaaga agccggcgga ggaggagccc gctgccgaga 120

aggcgccggc cgggaagaag cccaaggcgg agaagcgtgt cccagcaggc caggccccgc 180
gccaggaagg ccgccaggga aagaagggcc cggagaaagg ccaggagaac cttgagacct 240
tccaggacca ctttcttcaa gggcctgaac caggtccacc cggccatggg catttccttt 300
aaggc 305

<210> 9445
<211> 416
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3059-045-Q1-K1-C1
<400> 9445

ccaaacccta gccgccgagt gccgcctacc gcccgcccgc cctccgccgc gcgtcggacg 60
gtgccgaggg aagaggcacc atgagggttg agaagtgtg gttctgtcc tctaccatct 120
accccgccca tggaatccag ttogtccgca acgacgcaa ggtcttccgc ttttgccggt 180
caaagtgcc taaaaacttc aagatgaaga ggaaccctcg taaggttaag tggacaaaag 240
catacaggca tttgcatggc aaggacatga cccaggatac aacctttgag tttgagagga 300
agaggaacag gccggagcgc tacgaccgca atttaacgga gcagactctg aaggctatcc 360
cgcttattac aaagattagg catgaccgta tgggaaaaca catctcanac agacat 416

<210> 9446
<211> 402
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-045-Q1-K1-C11
<400> 9446

aacaaatctt gcaagctttg ttctacgttt ccttttgatc ccgagcaaac gtagaggaaa 60
gaagagcggg gttaagggcc caggagctcc accatcggag ggacgaggcc tgcagcttgt 120
tgaggcgccg aaagttaact cgtgggacag cgtgtggact gagaatggca tgggaaagta 180
aagggcccggt ttgggcaaga gtgaggcagt tctgtgaaa ggagaggagg acgagtttgc 240
ttgtggaaga gaaatctgag aatatctgtt cggatgcgtt ttgcatacgc atagaaggca 300
taatcaagga accccttatg cctatttgta tttgtcatgt tctttcatgg agtacatata 360

gatcagtgtg caatgagaaa tgtgagcggc taatgtacca ac

402

<210> 9447
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-C12

<400> 9447

agcaacttac ctttatcacc cctgttcttt caacaatcgc cagccctatc tttggggcag 60
tcattggtac aaaccatcag ggctcaacag ctgcagcaac tcgtgctacc agtgatcagc 120
caagtagctc tggcaaacct ttatccctac tctcagcaac aacaatttct tgcattcaac 180
caactgtcta cactgaaccc tgcgtcttat ttgcagcaac aacaactact accattcagc 240
cagctagcta ctgcctactc tcagcagcaa caattgcttc catttaacca attcgccgca 300
ctgaaccctt gtgcttattt ccagcagcaa atactactac catttgacca gctagctaca 360
acaagccccg ctatcttctt gacacaacaa caattgctta cgttctacca gcagtttgtg 420

<210> 9448
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-C2

<400> 9448

agagcacaat ggcgaccaag atattttccc tccgtatgct ccttgctctt tatgggtgtg 60
ttgctaacgc gacagcttta cctcaatgct cacaagctcc tatagctccc cttcttcccc 120
cataccttcc atcattgata gcttcagtat gtgcaaacc agctcttcaa ccctataggc 180
tccaacaagc aatcgcagca agcaacatac ctctatcacc cttgtttcaa caatcgccag 240
ccctatcttt ggtgcagtca ttggtacaaa ccatcatggc acagcagctg cagcaactcg 300
tgctacctgt gatcaacctt gtagctctgg caaacctttc tccctactct cagcaacaac 360
aatttcttcc attcaaccaa ctgtctacat tgaaccgtgc tgcttattcg cagc 414

<210> 9449
<211> 388

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-045-Q1-K1-C3
 <400> 9449
 tccggggtgg accaagcctt ccgtaaccaa acttggggaa taatgtattt tatgatgggc 60
 cacaaattgc cattgtgcgg gcggttctga aaacaagatt gatgtctctc cgcgcacttc 120
 aatgaacagc tgattcttaa ctaaaatacc gtccatcaat gatagctcca gtatgtgaaa 180
 acccaactct tcaaccctat aggctccaac aagcaatcgc agcaagcadc atacctttat 240
 caccctcggt tcaacaatct ccagccctat ctctggtgca gtcattggta caaactactg 300
 cggcacatca tctgcagcaa ctcgtgctac ctgtgatcaa ccaagtagct ctggcaaacc 360
 gttctaccta ctctcagcaa cagcaatt 388

<210> 9450
 <211> 268
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-045-Q1-K1-C4
 <400> 9450
 actcgaccca ctcgtccgaa gcacacactc tcgtattata tattttattt tcgtccacac 60
 atttcccttt atccgtcagt ttttaaaact acaataatcc cacaactctc acatccttct 120
 acaacttata ctcaactaac ataccttcca tcaattataa ctccaatata ttcaacaccc 180
 atctcttcaa ccctatattc ttcacactc aatcacatca agctacatac ctttattaca 240
 tctactttca acaatctcca tcctatc 268

<210> 9451
 <211> 385
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-045-Q1-K1-C5
 <400> 9451
 gtccattcca ggtagtcaca gaatactctg aggatcagct tgagttggtc ttagaggcct 60
 gcgaaaggat gaatgcgcat ctgacagctg cagttgtctc aaacgaccgc ctattcctgc 120

aggatgtact tgggagatcc gttaacggga caacctacgc cggaattcga gcgaggacca 180
 cgggcgctcc acagaaccac tggtttgcc cgccgggtga tccgcgaggc gcatggatcg 240
 ggactccgga agccatcaaa cttgtctggt cctgccacag ggaagtcata tatgacgtta 300
 ggcccgtgcc cgagagctgg ggcgattcta tcgcgagctg attagctaga cgacgataga 360
 ctattccatg tcattcacgag gaata 385

<210> 9452
 <211> 403
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-045-Q1-K1-C7

<400> 9452

cccacgcgtc cgcccacgcg tccgctgtcg cgtgggtgtg atttttctga tcattgagatg 60
 gaccagagtt ccaatctctg ttggtttaga tgaagtggca agtttttgtt gtgtgtgtgt 120
 ctctgataaa aggcacccat atttatgtct gtgacattaa tccaaatatg ctaaattgtt 180
 ggaaaaagtg tgttgacagaa agaggtcccg agcatgaact tttctaatag attttgttgc 240
 ctctgtctca agtgtgggtt atgttgttca acagttgggt tttattttcca ggttatagcg 300
 aagaacattg tcttagctgg atacaaggag atgcataagc tctgagtttt gaggatggat 360
 ctatggatgg ttacactatc gcatttggga tcagaaatgt gac 403

<210> 9453
 <211> 414
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-045-Q1-K1-C8

<400> 9453

atctttgaca aggctaggca gtctgctcca tgtgtcctgt attttgatga gctcgagtcc 60
 attgctactc agagaggacg cagtgttggt gacgccggtg gtgctgctga taggggtgtg 120
 aaccagctgc ttactgagat ggatggcatg aatgccaaga agacggtttt tattatcggt 180
 gcaactaaca gaccggacat cattgaccca gccttgctga ggctgtgctg tcttgatcag 240
 cttatctata ttctctgcc cgatgagcag tccaggcttc agatcttcaa agcctgtctc 300

aggaagtctc ctgtggccaa ggatgttgac ttgaatgctc tcgccaaata cccccaggg 360
 ttcagcgggtg cagatatcac agagatctgc cagcgcgcgt gcaagtatgc catc 414

<210> 9454
 <211> 422
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-045-Q1-K1-A10
 <400> 9454

gattggagtg cgcaatggga ggctgttcgg gaaaggtacg tcgtgatgac gaataagagc 60
 ttgattttta aggtggaaat gttcatatta taacaagcaa tgagggctgg gaccagaaga 120
 ttgcagaagc aaacagagat gggaaaactg ttgttgcaaa tttcagcgcgt tcttgggtgtg 180
 ggccatgccg tgtcattgct cctgtctatg ctgaaatgct aaagacttat cctcaactca 240
 tgttcttgac aatagacgtt gatgacctga tggacttcag ctcttcatgg gacatccgtg 300
 caacccccgac attcttcttc ctcaagaacg ggcagcagat cgacaagctc gtgggcgcga 360
 acaaacctga gctcgagaag aaagtgctag cagccgctga tgccagtacg tactagtgc 420
 ac 422

<210> 9455
 <211> 425
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-045-Q1-K1-A12
 <400> 9455

cccacgcgtc cgcccacgcg tccgtctcta ggaagcaagg gaatcacatc gccatggcag 60
 ccaagatggt tgcattgttt gcgtcctag ctctttgtgc aaccgccact agtgctaccc 120
 atatcccagg gcacttgta ccaactactga tgccattggc taccatgaac ccatggatgc 180
 agtactgcat gaagcaacag ggggttgcca acttgctagc gtggccgacc ctgatgctgc 240
 agcaactggt ggcctcaccg cttcagccgt gccagatgcc aatgatgatg ccaggtatga 300
 tgccaccgat gacaatgatg ccgatgccga atatgatgcc atcgatgatg gtgccgacta 360
 tgatgtcacc aataacgata gctagtatga tgccaccgat gatgatgcca aacatggttt 420

cacca

425

<210> 9456
<211> 314
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-A3

<400> 9456

cttccgaggc acggcaccag gcaggattaa cttgcctttc gatcatatcg tcaactggtc 60
cggcggtggtt cgacaccatg agctccacgg attgcggcgg cggcgggcggc ggcgccaaga 120
cgctcgtggcc tgagggtggtc gcgctgagcg tggaggacgc caagaagggtg atcctcaagg 180
acaagccgga cgccgacatc gtggtgctgc ccgtcggctc cgtggtgacc gcggtatttc 240
gccctaaccg tgttcgcac tttctggaca tcgtcgttca gacgccccac atcgtgtgac 300
aatatataag ctacg 314

<210> 9457
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-A4

<400> 9457

cccacgcgtc cgagcacaat agtgtaccaa caatggcagc caaaatattt tgcttcgtta 60
tgctccttgg tctttctgca agtgttgcta ccgcaaccat tttcccacaa tgctcacaag 120
ctcctatagc ttcccttctt ccccatatcc tctcaccagc ggtgtcttca gtgtgtgaaa 180
acccaattgt tcaaccctac aggatccaac aggcaatcgc aacaggcatc ttaccattat 240
cacccttgtt cctccaacaa ccgtcagccc tattacaaga gttacctttg gtccatttgg 300
tggcacaaaa catcagggca caacaactac aacaacttgt gctagcaaac cttgctgcat 360
actctcagca acatcagttt cttccattca accaactggc tgcattgaac tctgctgct 419

<210> 9458
<211> 402
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-045-Q1-K1-A5

<400> 9458

```
cggacgcgtg ggaaatcacg ttatacataa ctgcattgag tgtgtcccca cggggcatat 60
tgctttttgta gtgtctgctt ttcagggaca agttactagc ctttcaatgc atacatatgg 120
ctgccgtgta attcagagaa tctcgtatca ctgcggtggt aactcacaac gtcagtgcatt 180
aatatacgag atattacagt gcatgtgcat ccttgcgtag gatcagtatg gcaactatgt 240
tacactgcat gttctagaaa gaggtatagc tcatgacagg agccttatta ttactaaatt 300
cgcaagtcac gttgatacta tgagccaaga taaatatgca tcagatgtga tagagaagtg 360
tnttcaacat ggagatatag ctgagcggga tcttatgatc ag 402
```

<210> 9459
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-A6

<400> 9459

```
cggacgcgtg ggggtgttgct aacgcgacac atgtagaaag agcaaggagc ataaggaggg 60
aaaatatctt ggtagccatt gttgctctat tgtagctact ggattccact ttctatgttg 120
ctaacgcgac aattttccct caatgctcac aagctccat agcttccctt gttcccccat 180
accttccatc aattatagct tcaatatgtg aaaaccacgc tcttcaacca tatacgcttc 240
aacacgcaat cgcagcaagc aacatacctt tatcgccctt gttgtttcaa caatcgccag 300
ccctatctat ggtgcagcca ttggtacaaa ccatcatggc acaacagctg cagcaactcg 360
tgctacctct gatcaaccaa gtaactctgg caaacctttc tccctactct cagc 414
```

<210> 9460
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-A7

<400> 9460

cagatcagca aagcggcagt gcgtagagag gatcgtcgaa cagaacagca tgaagatggt 60
catcgttctc gtcgtgtgcc tggctctgtc agctgccagc gcctctgcaa tgcagatgcc 120
ctgcccctgc ggggggctgc agggcttcta cggcgctggc gccggcctga cgacgatgat 180
gggcgccggc gggctgtacc cctacgcgga gtacctgagg cagccgcagt gcagcccgt 240
ggcgccggcg ccctactacg ccgggtgtgg gcagacgagc gccatgtacc agccgctccg 300
gcaacagtgc tgccagcagc agatgaggat gatggacgtg cagtccgtcg cgcagcagct 360
gcagatgatg atgcagcttg agcgtgccgc tgccgccagc agcagcctgt acg 413

<210> 9461
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-A8

<400> 9461

cccacgcgta cggatgatgaa catgataatg catattcttg cgctttataa gggaaggatga 60
gcatcttata gtaacttata aagcgcaaga atataaatta ctatgagatg ctcatattcc 120
tttaaaaaac accatactac atacctagaa cagcactgac atccagcctg acaacaaaaa 180
taggcacgac gcctattcta cagcatccaa gattacctca ggcatcctgc gagcatcacg 240
ctgtcgata ggcgcatact actctcaatt gtgtgccac tatcttcaaa caccaggcgg 300
gccaaaaaca ttgcttcaca caacttacta ggattataga cattcaacct t 351

<210> 9462
<211> 284
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-A9

<400> 9462

cccacgcgtc cggatctaga ccgcattctc gatcttcaag ttgttcatta tttatgggtg 60
ccatttccta gtagaatccc gtgcttaaga atctggctga tgatgagccc gttatataga 120
atgcccctgc cgggaagaat cccaatgcag caaacgtgt accaacaggc aagtccatca 180
gcaaggacgg cgctgtggaa aagaaggacc gtaagatgag cacgaatagc gtggagacct 240

acacgatcta catcttcaaa gtgctgaagc atgtacacca gtac

284

<210> 9463
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-B1

<400> 9463

cttcgcccac gcgttcgcgc acaccttcgg ccacgccttc gaaacatctt cgcttggttg 60
aggatggaat tgccccactt cctaattccg gtgggtttta atatggccat tctgaacctg 120
ttgggttata cctaccgct gtatctagta ctaaagcccc gtttgtttcc ttccaagatt 180
atataatcca gctcgtggat tatataagca cctattgacc tgcttataga ttatcataat 240

ctagatatcc ggattatata attcacctaa taatctatat tgcttggtta actctcaatt 300
tatttaagct agattatata atatagatgg taaacaaaca acgactaaaa catattttct 360
gcaacataaa atttctgagt tcacaagttc aacacagagt acagaatatt atatagatt 419

<210> 9464
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-B10

<400> 9464

aacagatctc gctatggaca ttctatttat actctacttc aagatcaatc agtaagggtg 60
catgcacgta ggttcattcc aaatatctgt actcagcaat tgactaatcc gattagtcga 120
aatgctgcgt attgagcaac acacggctct tgaagcatca tatattgcca tgcaaacctg 180
taaacttagc gtggttcata ttgtgtacag tcagatgacc tgcaactatg acaacttaac 240
tcacgtagta ctgtcgagct aactaaacta catatgctag taaagcacta attcatatga 300
tactatagga tgagcatatg cctatttgaa ctgctgatgc tattggatct tg 352

<210> 9465
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-B11

<400> 9465

cccacgcgtc cgcccacgcg tccgaactag caacatagaa agcacaatag tgtaccgaca 60
atggcagcca aaatattttg cctccttatg ctcttggtc tttctgcaag tgetgctacc 120
gcgaccattt tcccgcaatg ctcaaaagct cctatagctt cccttcttcc cccgtacctc 180
tcaccagcgg tgtcttcggg atgtgaaaac ccaattcttc aacctatag gatccaacag 240
gcaatcgag ctggcatctt acctttatca cccttggtcc tccaacaatc atcagcccta 300
ttacagcagt tacctttggg gcattttattg gcacaaaaca tcagggcaca acaactacaa 360
caacttgtag tagcaaacct tgctgcctac tctcagcaac agcagtttct tccattcaac 420
caacta 426

<210> 9466

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-B2

<400> 9466

ggaatacagt agcaacaata gagcaacaat ggaggccaag atattgtcca tccttggtgct 60
ccttgctctt tctgcatgtg ttgctaacgc gaccattttt cctcaatact cacaagctcc 120
tatagctgcc cttcttcccc cataccttcc atcaatgacc gcttcagtat gtgaaaaccc 180
agcccttcaa ccctacaggc tccaacaagc aatcgcaaca agcaacttac ctttatcacc 240
cctgttcttt caacaatcgc cagccctatc tttgggtgcag tcattggtac aaaccatcag 300
ggcacaacag ctgcagcaac tcgtgctacc agtgatcagc caagtagctc tggcaaacct 360
ttctccctac tctcag 376

<210> 9467

<211> 179

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-B3

<400> 9467

ccgggttgaa ccaagccttc caaatatata ttctgaaca atccaaaact ggttaagggg 60
 ggtggcctaa ctgcataatg ccgatttaa atagagaggg atggatagac gacacacatt 120
 atcatgtgtg gtatgaccaa taatatatgc atgatcataa taaagttttg gttttaatg 179

<210> 9468
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-045-Q1-K1-A1

 <400> 9468

ttttgggcca tcctnntgcc ctcttgctn nctttcagnc aagccgttgc taccnnngcg 60
 actannntat tccacaatgc ntnncacaac aatnnacctc tctttccggt gaccagcnnc 120
 gcgaagatnn ttgaataccc cannactata caatnnctta caggctnnna caaagaggcc 180
 anntcgcagc aagggcattc ttaaacggtc gtnntagcat nntgaccgnn tccaacaacc 240
 ccatatgnnn cctattgcaa cccaaccann tccttaatgg gaatctannt atctcnncaa 300
 agaatcnngg cagcacaaca nacctacca acaaccagtn ntgctntcca nnataatcan 360
 anntcaagta gttnnngcag cgaacncttn nngctgctta cncnncnna gcaacaacca 420
 nnatttcttc ccattttcaa tc 442

<210> 9469
 <211> 450
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-044-Q1-K1-G5

 <400> 9469

aggacatcac tgcccaaadc atatctgcta gtatagcggg tgatatggtt cttgcttggg 60
 cctactcgca tgagttgcca cgatatggtc ttgaagttgg tctgaccaac tatgcagctg 120
 cctactgcac tggccttctg ttggctcgcc gtgtgctcaa gatccgtggt tcggatcagg 180
 agtacgaggg caatgttgat gccactggtg aggacttctc tgatgagcca gctgatgaga 240
 ggaggccttt ccgtgctctc ttggatgttg gccttatcag gactacaaca ggtaaccgtg 300
 tctttggtgc cctcaaggga gcattggatg gacgcctgga tattcctcac agcgagaaga 360

ggtttctgtg attcaagaaa gacgacaagc aattggatgc tgataccac cgcaggtaca 420
tctatggtgg ccatgttgct gactacatga 450

<210> 9470
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-G6

<400> 9470

cccgctccg ctagccctag ccgctccg ccgacttcat cgtcgccgtc gtctagacgt 60
cttcacgcac tggaaagggt aaagtccgac atcaatggcg aagcatcatc ctgatctcat 120
catgtgccg aagcagcctg gcatcgcat tggccgcctt tgcgagaaat gtgatggcaa 180
gtgtgtgtc tgcgactcgt acgtcgccc atgtacgctt gtccgggtct gcgacgagt 240
caattatggt tcgttccagg gaagggtgtg gatctgtgga ggagtcggca tctcagacgc 300
ttactactgc aaggagtgc cccagcaaga gaaggaccgg gacggttgcc ccaagatcgt 360
gaatctcgga agcgccaaga cggatctctt ctatgagcgc aagaagtatg gttttaagaa 420
gagatgaccg agaagatgga gctgt 445

<210> 9471
<211> 231
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-G7

<400> 9471

cccacgcgtg cgcgatgcag ctgtctgtct tcaaataat agctcactcg ccggttggtg 60
cggtagcgat tgatgtgtgc gtacgtgatt gaagacggag gcccataagt gcgctgtcag 120
cactggccat gtgcctggct cgatacgact ccaacgtcct gctgaccgat gtgaccgcac 180
tctcggcggc tgtcacttct gtcgcgccgc atgacctcta ctcgcggtgc c 231

<210> 9472
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-G8

<400> 9472

gaaagtggaa tccagtagca acaatagatc aacaatggag accaagatat ttggcctcgt 60
tatgctcctt gctctttcta catgtgttgc taacgcgaca attttcctc aatgctcaca 120
agctcctata gcttcccttt ttccccata ccttccatca attatagctt cagtatgtga 180
aaaccagct cttcaaccat ataggcttca acaagcaatc gcagcaagca acataccttt 240
atcgcccttg ttgtgtcaac aatcgccagc cctatctttg gtgcagtcac tggtaaaac 300
catcagggca caacagctgc agcaactcgt gctacctgtg atcaaccaag tagctctggc 360
aacct 366

<210> 9473

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-G9

<400> 9473

ggcttctcct cccctccgg ttcgggttcg ggctcgtgag gttctccgga gttcgggttc 60
gtgggtgagc ggatcgagat ggcggcgctc gatgttgagt accgctgctt cgtcggcggc 120
ctcgctggg ccacggagca cactccctc cacaacgcct tcagcaccta cggcgaggtc 180
ctcgagtcca agatcatcct cgatcgggag acgcagaggt cccgcggctt cggttcgctc 240
accttctcca cggaggaggc gatgcggaac gccatcgagg gcatgaacgg caaggagctg 300
gacggccgca acatcacctg caacgaggcc cagtcccgcg gcggccgtgg aggcggcggc 360
ggcgggtacg gtggtggccg tggaggcggc ggctacggcg gtggcgggcg ccgtgat 417

<210> 9474

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-H1

<400> 9474

cggacgcgtg ggggtggaatc cagtagcatc aacagagcaa caatggcgac caagatatgt 60

tcgtcctta tgctccttgc tctttctgca tgtgttgcta acgcgacaat tttccctcaa 120
 tgctcacaag ctctatagc ttcccttctt ccccatacc ttccatcaat gatagcttca 180
 gtatgtgaaa acccagctct tcagccctat aggctccaac aagcaatcgc agcaagcaac 240
 atacctttat cacccttggt gtttcaacaa tcgccagccc tatctttggt gcagtcattg 300
 gtccaaacca tcagggccca gcagctgcag caactcgggc tacctgggat caaccaagta 360
 cttttggcaa accttcttcc taattttaag aaccaccatt tctttc 406

<210> 9475
 <211> 422
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-044-Q1-K1-H10

<400> 9475

caaccatata ggcttcaaca agcaatcgca gctagcaaca tacctttatc gcccttggtg 60
 ttgcaacaat cgccagccct atctttggtg cagtcattgg taaaaccat cagggcacia 120
 cagctgcagc aactcgtgct acctctgac aaccaagtag ctctggcaaa cttttctccc 180
 tactctcagc aacaacaatt tcttccattc aaccaactgt ctacactgaa cctgctgct 240
 tatttgagc aacaactatt accatttagc cagctagcta ctgcctactc tcagcaacaa 300
 caacttcttc catttaacca attggccgca ctgaaccccg ctgcttattt gcagcagcaa 360
 atactactac catttagcca gctagctgca gcaaaccgtg ctttcttctt gacacagcaa 420
 ca 422

<210> 9476
 <211> 221
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-H11

<400> 9476

tggtgtttgt tgccagcaag cctgttgga acttctttgc ttttgatatg cactgttgt 60
 ttgtgcatgg tgagaagttc aatcagccca tatttactg caacaacatc tctggattcg 120

ttgaaccagt cggtccagac aatcagaaca gggccctgta ctcaactcac accttcaaga 180
tcttgttcaa ggaaggcggc tgtggtactt tegtctct c 221

<210> 9477
<211> 129
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-H12

<400> 9477

cgggctcaag gcaccacaac ttgatttact tgtgctaact gggatcaacg gaattggttt 60
tggcaaaactt ttttccttat tttcggaaca accatttttt tcatttaaac caattgttta 120
aattgaacc 129

<210> 9478
<211> 448
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-044-Q1-K1-H2

<400> 9478

cggacgcgtg ggcggacgcg tggggagccg tgctcgcatg tgtgttaagc ccagccaaga 60
caagtcaagt cggagcccg c aggtgtcgac accgcgcgcc gggagccgga agaagggtgg 120
accatgagcg cgaccgggcg agccccgtgc ggctgcccgc gcatcggcct gggcacggcg 180
gtgcagggcc cgcggccgga ccccgctcgc gccgcggtgc tgcgcgccat ccagctcggc 240
taccgccact tcgacacggc cgcgcactac gccaccgagg cgcccatcgg ggaggccgcc 300
gccgaggccg tgcgcacggn gctcgtcgcc tcccgcgagg acctcttcgt cacgtccaag 360
gtctggtgcg ccgacgcgca ccgggacagg gtgctcccg ccctccgccc gacgctcagc 420
aatctccaga tggaatacgt ggacctgt 448

<210> 9479
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-H3

<400> 9479

cggacgcgtg gggaaccaca ccaagctaag cgcactagca acaacctaac aacaatgggt 60
acggagatat tatccctcct tgcgcttctt gcgctttttg caagcgcaac aaatgcgtcc 120
attattccac aatgctaact tgctcctagt tccattattc cacagttcct cccaccagtt 180
acttcaatgg ccttcgaaca cccagctgtg caagcctata ggctacaaca agcgattgcy 240
gcgagcgtct tacaacaacc aattgccccaa ttgcaacaac aatccttggc acatctaaca 300
atacaaacca tcgcaacgca acagcaacaa cagttcctac cagcactgag ccacctagcc 360
atggatgaacc ctgtcgcta cttgcaacag cagctgcttg catccaaccc acttgctcta 420
gcaaacgtag ttgcaaacca gcaacaac 448

<210> 9480

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-H6

<400> 9480

attgagacca acaagcaaca tataaagtgg aatccagtag caacaataga gcagcaatgg 60
cgaccaagat attttccctc cttatgctcc ttgctctttc tacatgtgtt gctaacgcga 120
caattttccc tcaatgctca caagctccta tagcttccct tcttccccca taccttccat 180
caattatagc ttcaatatgt gaaaaccag ctcttcaacc atataggctt caacaagcaa 240
tcgcagcaag caacatacct ttatcgccct tggtgtttca acaatcgcca gccctatctt 300
tggtgcagtc attggtacaa accatcaggg cacaacagct gcagcaactc gtgctacctc 360
tgatcaacca agtagctctg gcaaaccctt ctctct 396

<210> 9481

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-H7

<400> 9481

cccacgcgtc cgcggacgcg tgggcggctg cgtgggcgcc gcaccatccc ttaagcgcgg 60

cagagccagt gccagtgcc gtgccagtga agcagagcag cagcatggct cgggacacag 120
cagcaggcac aatcagccta gcgaggcggc cccgcccagc cgggtcccaca gctccagggtc 180
agagagagac cccagacatg gcggcagcag ggatcagcac ctccaggacg ggcgctgtgg 240
gttgctgcac cctagcgaca tgttcacgt gaagaagaag aggcaagagc ggcgaggag 300
cggaatcggg tccccctcca gctcgggccg aggcgcggga cctttgtcgc cggccaacct 360
tggggtcgc gcccttgccc ctggc 386

<210> 9482
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-H9

<400> 9482

cagcccacca caccgcgcc tccgtaccat ccgtcgccgc cggcgaccgc cgatgggtgc 60
ctccgccacg gccgcgaggc ctttcgccgc gactgccgtc ctgctccgc tctcggcgcg 120
gacgcggcct gccagggtcg cttgctctc cctgattcct cctgctccgc cctgcgcct 180
tgctctcagg cgcggcgct ggctccact cccggagcgc agccggtcgg tgcgggtgct 240
ggcggctatg agcccgaga tgcggcgac gctggacaag gtcgtaggct ccagcaagg 300
ggtgctgttc atgaagggca ccaaggactt cccgcagtgc ggcttctccc acaccgtcgt 360
gcagatcctg cgctccctcg acgtgccctt cgagacgctc gacgtgctcg ccaacgaggc 420
gctccggca 429

<210> 9483
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-G4

<400> 9483

cccactcgtc ctcatgcact tccccttact catagaccta tatgttccat aacaattcca 60
ctttcaccat tgtatgttca taaacttctt atacaacata cactaaacta taactaccac 120
actccctaac cctatctact tcaatctact tcaccttaaa cccttcacaa caactactcc 180

tcaatcttca gatcttatcc gatattccaa cacacactga cattaatcaa cattacaatt 240
 ctcatcacat ccctactacc tatcaccaac tatcacacta tctataataa tataacaataa 300
 aaataacact tttca 315

<210> 9484
 <211> 412
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-044-Q1-K1-E9
 <400> 9484

gccctggttc ttcaacaacc ggcaggccta atacagcagg tacccttggg gcatttggtg 60
 ggaccaaaaca taaaggacaa caactacaac aacttgtgct aagaaacctt gctgcctact 120
 ctcagcaaca gcagtttctt ccattcaacc aactggctgc attgaactct gctgcttatt 180
 tgcaacaaca actaccattc agtcagctag ctgctgccta cccccagcaa tttcttccat 240
 tcaaccaact ggcagcattg aactctgctg cttatttaca acagcaacag ctaccaccat 300
 tcagccagct agctgatgtg agccctgttg ccttcttgac acaacaacag ttgttgccgt 360
 tctacctgca cgctgcgcct aacgctggca ccctcttaca actgcaacaa tt 412

<210> 9485
 <211> 388
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-044-Q1-K1-F1
 <400> 9485

ccggcaaaaa aaaaacaaac acaagaaaaa taaattaa aaacaatt tttatttta 60
 aaaaaaaaaa aaaaaaaaaa aggacatggc ccaattcata aaatcacatt aactacaaaa 120
 acaaacctcc gctgtaaaaa catcctttat ataaccactt gtcctttaaa aacccactt 180
 ttaaaatata aaaaacgcct tccaaaaaaa aaaatccaaa ctaacaatac acgtgcatcc 240
 tacctctaaa actctccctt atttctcacc caaacttaaa aaacttaacc tttttttaaa 300
 aacgtcccaa tttaaaaaac ccttacttta cttaaaaaaa ccgtcatttt aaaaaaccct 360
 tcttttccaa cttttattac cctaaaaa 388

<210> 9486
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-F10

<400> 9486

agaccaacaa gcaacataga aagtggaatc cagtagcaac aacagagcaa caatggcgac 60
 caagatatatt tccctcctta tgctccttgc tctttctgca tgtgttgcta acgcgacaat 120
 tttccctcaa tgctcacaag ctccatagc ttcccttctt ccccatacc ttccatcaat 180
 gatagcttca gtatgtgaaa acccagctct tcagccctat aggtccaac aagcaatcgc 240
 agcaagcaac atacctttat cacccttggt gtttcaacaa tcgccagccc tatctttggt 300
 gcagtcattg gtacaaacca tcagggcaca gcagctgcag caactcgtgc tacctgtgat 360
 caaccaagta gctctggcaa acctttctcc ctactctcag caacaacaat ttcttccatt 420
 c 421

<210> 9487
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-F11

<400> 9487

gcctgggggtg tataaggggg tcttggaactc cgacgctgga ctatttggtg gatttagcag 60
 gatccatcac gcagccgagc acttcaccgg cgactggctg catgataata ggccatattc 120
 attctcggtt tatacaccaa gcagaacatg tgctcgtctat gctccagtgg agtgatagcg 180
 ggggtactcgt tgctgcgcgg catgtgtggg gctgtcgatg tgaggaaaaa ccttcttcca 240
 aaaccggcag atgcatgcat gcatgctaca ataaggttct gatactttaa tcgatgctgg 300
 aaagcccatg catctcgctg cgttgtcctc tctatatatt taagaccttc aaggtgtcaa 360
 ttaaacaatag agttttcggt tttcgcttcc ct 392

<210> 9488
 <211> 406

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-044-Q1-K1-F12
 <400> 9488

nccacgcgtc cgaaaccggc aggtaatgtt gggccggtat taaattggcc accaggggca 60
 gaggcttatt attggccatt accccaggtt attggaaacc ttttggcacc agaacaagct 120
 ttttttgggtt aattaaacca ttcaaatttg gttaaaccctt gaagacccat ttgcacgtga 180
 taggtacaac caatgattta aagtcgccta gtcggctggt cgaaccctgg gactgaccag 240
 gcgactagtc gcgattagtc gacgactagg gcgactagtc gacccttagt cggtcctagt 300
 cggtccctgg tcgtcctaga ctagtagcta tacttatata ggtatatata taaatatacc 360

tgtatacatt atataaatta gaacaaacaa ctaggataaa caaagt 406

<210> 9489
 <211> 343
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-044-Q1-K1-F2
 <400> 9489

ggcctagcgc cgcacccgcc gncgcatcag ccacagcca tggcgatggc cgctcgcctc 60
 gtctcgcgct cccgtcagct acattcggtt caagcagctt ttgcgaatgg aggtgccact 120
 caagttcgtc cctttgccaa ggatgcagct ccagctgacc gtcctcctgt tgggtggggat 180
 gatctcctga agggcatatt ctttgaggta aagaagaagt ttgagacagc tctcggcgtc 240
 cttaaaaagg aaaagatcac tattgatcca gatgaccag cggcagtttc tcaatatgct 300
 caagtcatga agactgtaag ggaaaaggcg gatcttcttt ctg 343

<210> 9490
 <211> 412
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-044-Q1-K1-F3

<400> 9490

gcacaccaat cgcccacaag agctcgcagg aaagggtcgaa cnctaacttt tgccggggggg 60
gggagaagat gatctacgac gtgaactccc ccctcttccg ttccttctc agccagaagg 120
gcggcgccga caagaggaaa atggaggagc ataaaccaa ggageagagg cccaaggcta 180
acgagaacaa gcctgtgatg aacgaatgaa tatctccaga agctttgttc aatgtgcaac 240
caagtccgat gtccgtctgc tctggtcagc ttaaaaccaa cgcttccaat aatcctattg 300
gtgtcttagt ttccccttat agtggtattt gctcggcttg aacatggcaa cggaaatgaa 360
acttgaacta tggtagctgc atcaatttga gaccccatg attgacaact tt 412

<210> 9491

<211> 443

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-044-Q1-K1-F5

<400> 9491

gctgcttcgt cggcggcctc gcctgggcca cggacgacca ctccctccac aacgcctgtg 60
agcacctacg gcgaggtcct cgagtccaag atcatcctcg atcgggagac gcagaggtcc 120
cgcggttcg gcttcgtcac cttctccacg gaggaggcga tgcggaacgc catcgagggc 180
atgaacggca aggagctgga cggccgcaac atcacgtca acgaggcca gtcccgcggc 240
ggcgtggag gcgcgggcgg tgggtacggt ggtggccgtg gaggcggcgg ctacggcggt 300
ggcgggcgcc gtgatggcgg cggcggtac ggcggtggcg gcggctacgg tggcgggcggc 360
ggctacggtg gtggtggcgg cggctacggc ggtggcaacc gtggcggcgg ctacggcaac 420
tncgacggga actggaggaa ctg 443

<210> 9492

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-F6

<400> 9492

gttcgctctc ctagctcttt gtgcaagcgc cactagtgcg acccatattc cagggcactt 60

gccaccagtc atgccattgg gtaccatgaa cccatgcatg cagtactgca tgatgcaaca 120
 ggggcttgcc agcttgatgg cgtgtccgtc cctgatgctg cagcaactgt tggccttacc 180
 gcttcagacg atgccagtga tgatgccaca gatgatgacg cctaacaatga tgtcaccatt 240
 gatgatgcag catgtcacca atgggtcttg cgagcatgat gtcgcaaata atgatgccac 300
 aatgtcactg cgacgccgtc tcgcagatta tgctgcaaca gcagttacca ttcatgttca 360
 acccaatggc catgacgatt ccacccatgt tcttacagca accctttgtt ggtgctgcat 420
 tctagataga aatatttgtg ttg 443

<210> 9493
 <211> 411
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-044-Q1-K1-F8

<400> 9493

gagggagaga aaaaccagc ccccccgatc tctctctccc actccgatcg cccgaccgat 60
 cgccgagctt ccctgttccc tccccgcccc cgcgacgccg cgacgccatg gagccgccgc 120
 acgccgagca ggccgtcgcc gctgtagcag caggaggaga gggcggcacc gcaagcccgg 180
 gcaccggcct cgaagggccg gtgcttaggc gngggctgga cggcgggtgg gaaggggagg 240
 acggtgagct gggggcgng caggaggcga acgcacggct accagagcgg cctggcgagg 300
 cggactgtgg ctactacctc cgcacggccg cctgngcttc cgggaagcgt gccgggtacaa 360
 ccattccgc gatcgtggcg gactgaggt gcgcgcgggc ggacgatttt c 411

<210> 9494
 <211> 278
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-044-Q1-K1-G1

<400> 9494

cccacgcgtn cgcgacgcg tggggcatgg cggaagcaga attattatat tttgggcaa 60
 tcattgccat taacattgtc ttcaatgtac actggtattg gcggcgagat gacggatccc 120

aatcggcgctc aatctatctg agcttaaacc cttcacgaca agaggcacac gatcgccagc 180
gctgcccga tagtccaaga tgcagtgtct cttgctgcgt tgntcttctg atctgcangc 240
ggttgccgt ccgcgttcgg cgaaggagct ggggtagt. 278

<210> 9495
<211> 424
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3059-044-Q1-K1-G10
<400> 9495

ggcgactatc gcctccgca tccccaccct cgcgagcgtg ccgatgctgg cgtgggccaa 60
ggccaacatc aaccccaccg gccaagcgt catcgtctcc acggtggccg ggatggccta 120
cttcacgcc gccgacaaga agatcctgtc gctggcgagg cgccactcgt tcgaggaagc 180
tccggagcac ctcaagaaca ccttcttcca gggcaccgga cgccccacc cggctttctt 240
caagccatga tgagatcaga tatatatatg acacatccgg cgacctcatc agtcatagaa 300
ccaagcagc cagtcagtca gtcagcacia gcacaagcac caaagatgat gccattcaag 360
tctgcatggt tgcatttata aaaaataaac tgctangctg atgacgcgct ctaatataag 420
ctag 424

<210> 9496
<211> 348
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3059-044-Q1-K1-G11
<400> 9496

cccacgcgtc ccgaatttaa tctggcctgg cttttgcggg ggtcaatggt tgtcctggtt 60
ggctggtggt aggtgctttg gttaccatt attcggattg gaaggccgtt tgtaaggggc 120
ctggctgaat aagtccttag tccctggctt aactgctgt gctaccacat gacatgatgt 180
actcgtgtgt gtgctaggat ggtgtgtaat tacatgacca tgatcagtaa tctgaataaa 240
aaatattgga gatgtgcttg cttcctaaaa aaaaacatnc gtcgacctaa tcaatcatag 300

agcccagcca gccagtcagt caagtaagca caagcacaag caccaaaa

348

<210> 9497
<211> 299
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-044-Q1-K1-G3

<400> 9497

ttggccggcc ccttggcctt aaagggccca tggttttgga cctgggttctc gaacgggtcc 60
ttaaccttcc tgaaggcctt ggaaaaccaa ttttaacaac aacaatggcc ttggtgggtt 120
gaccgtactt ttcattggaa ggtccacagg aactaatgct tgatctttgg atgttgnttg 180
aagatgaaaa cacatcaaga gaaaattacg aggacaacaa tggttacatg cctncaagtt 240
atgaagaagg aacatcctct ggaggaggat tgagaatgaa actcaaacag tttcacaaa 299

<210> 9498
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-D11

<400> 9498

tagagagaag gaaaaatatc cccaaaccgt agctgccgat ctcgatggcg aaccctcgcg 60
tcttcttcga catgaccgtc ggcgggcgccc cggcggggccc gatcgtgatg gagctgtacg 120
ccaacgaggt gcccaagacc gcggagaact tccgcgcgct gtgcacgggc gagaagggcg 180
tgggcaagtc cgggaagccg ctccactaca aggggtccac cttccaccgc gtcatccccg 240
agttcatgtg ccagggcggc gacttcaccc gcggcaacgg caccggcggc gagtccatct 300
acggcgagaa gttccccgac gagaagttcg tgcgcaagca caccgtcccc ggtgtgctct 360
ccatggccaa cgccggggccc aac 383

<210> 9499
<211> 422
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-044-Q1-K1-D12

<400> 9499

cccacgcgctc cgcttgtcca cgaagaatgg gctggggttg cacctttgga agtgggagct 60
cctcgtgttc gtgctcatct gggggcgtct tgtcttcgga tgggtcatta agattgccgt 120
cttcggtgtc gaacgcaact tcttgcttaa gaagcccgtg ctctactttg ggtatggagt 180
gcccacgccc gtgcaaaacg cgctcttgct eggcctgggtg ctgcctctt ggcacttctt 240
gtttgacgag aatgtccagc aagagacgaa ctctccagta ctgccctatg tgacgaaggt 300
actattctgc tttcttggtg ccacgctcat ccgccttgct aagacattgc tgctgaaggt 360
actggcctnc tccttccatg tctcgacgta ctttgatcgg attcaagagg cattgttcaa 420

tc 422

<210> 9500
<211> 384
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-044-Q1-K1-D2

<400> 9500

ctcgggatga ccttcagaaa tagtggtatg ttcttctaaa ggacaagaac atgctaata 60
cacagcgtca aatgctgcat tcagagagca tgaggttccc aaatccagaa cgaatttcca 120
aggtaaagaa atcaatgtgc cggataaagc atgtcttgac tgagaggggt atagcggagc 180
ccgatccaag gagatcttcg gaaatgaagc ggatgataaa tgccctgtga ttcactcaca 240
ggcattctcc cttgggactt ttgatggtac ttattagaaa gatctgctgc cttctgttgt 300
atctctatcc cataagaact gtgagaccaa atcttttcga tgcccatggt atggtagcaa 360
aaattagact ntaactgatc cgat 384

<210> 9501
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-D5

<400> 9501

cagaaacaca ccaagcgaag cgcactagca acgacctaac aacaatggct accaagatat 60

tagccctcct tgcgcttctt gccctttttg tgagcgcaac aaatgcgttc attattccac 120

aatgctcaact tgctcctagt gccattattc cacagttcct cccaccagtt acttcaatgg 180

gcttcgaaca cctagctgtg caagccaaca tgcaacaaca agcgcttgcg gcgagcgtct 240

tacaacaacc aattgcccaa ttgcaacaac aatccttgcc acatctaaca atacaagcca 300

tcacaacgca acagcaacaa cagttcctac cagcactgag ccacctagcc atgggtgaacc 360

ct 362

<210> 9502

<211> 167

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-D6

<400> 9502

gcaaatttca cttgtgctgt caaagactat cttgtcttat gttatgtctc taggcttttg 60

ttacaactac ccaagttttg agtttttgag atgtggctat ggcatgaact caaaccatct 120

tatgaggggtg aaacctgttt ctaatttcta tattgttgct gttcatt 167

<210> 9503

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-D7

<400> 9503

agaaggcctt cacagcagcc tgagtttata gactatgttc catgagtagt ctatagaatg 60

tctttttaat tcaaaagaaa tctctcttct aggctggtgc ttttcgacta taatttggag 120

attgttccat gtccgtgcaa tcactgaac atgttactac ttattgtacc ttgtcgtgca 180

aagttttgct aagatctcta ttgtttcatg tcttctgata aaaaaaaaaa aaaaaaaaaa 240

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaggg gcgccctttt 360

taagggtccc aagtttactt ccccgtcctt gcaacttcaa acctttttta tggggccccc 420
 aaaattaaat tcccgggc 438

<210> 9504
 <211> 424
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-044-Q1-K1-D8
 <400> 9504

agcaagaaga aggctttcac aaagtatgct ctcaaataatg aaaatgatgc tggcaagaag 60
 gaaattcagc tgcagcttga gaagatgaag aaatatgctt ctgttatccg tgtcattgct 120
 catacccaga ttaggaagat gaaggggttg aagcagaaga aggctcacct gatggagatt 180

cagggtcaatg gtggtaccat tgctgacaag gtggactatg gctacaaatt ctttgagaaa 240
 gaggtccctg ttgatgctgt cttccagaag gatgagatga ttgacatcat tgggtgtgacc 300
 aaggggaaag gttacgaagg tgtggtcact cgttgggggtg tcacccggct tccccgcaag 360
 acccacaggg gtctccgcaa agttgcttgt atcgggtgcat ggcacccggc taggggtctcc 420
 tata 424

<210> 9505
 <211> 421
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-044-Q1-K1-D9
 <400> 9505

ctaggaagca agggacacca ccggcattgc agccaagatg cttgcattgg tcgctctgct 60
 actctttggc agcgactat gcgaccatat tccaggcact tgccaccagt catgccattg 120
 ggtaccatga acccatgcat gcagtactgc atgatgcaac aggggcttgc cagcttgatg 180
 gcgtgtccgt ccctgatgct gcagcaactg ttggccttac cgcttcagac gatgccagt 240
 atgatgccac agatgatgac gcctaacatg atgtcaccat tgatgatgcc gagcatgatg 300
 tcaccaatgg tcttgccgag catgatgtcg caaatgatga tgccacaatg tcaactgcgac 360
 gccgtctcgc agattatgct gcaacagcag ttaccattca tgttcaaccc aatggccatg 420

a

421

<210> 9506
<211> 342
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-044-Q1-K1-E1

<400> 9506

ctcaccaaga gcttaccaca gaccagagct cgcattggaag gaattctgat caggagtctg 60
aaccacaaccg aatcctctta gttactatcc accacatgat ctatcctata acggtggagg 120
ttctacatca agtattcaaa gcttatggat ttgtggagaa gattgtcaca tttcaaaagt 180
cagctggttt tcaagctctt attcagtttc actcgcgcca aagagctgtg gaagcatttg 240
gttcttgcat ggaaggaaca tatatgatgg ttgctgccag ctatgatattc aatattcaaa 300
tctcagtga ctcgaagtnc attacaacaa cgaccgatct ag 342

<210> 9507
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-E10

<400> 9507

gaccaagata ttttccctcc ttatgctcct tgccttttct acatgtgttg ctaacgcgac 60
aattttccct caatgctcac aagctcctat agcttccctt tttcccccat acctccatc 120
aattatagct tcagtatgtg aaaaccacgc ttttcaacca tataggcttc aacaagcaat 180
cgcagcaagc aacatacctt tatcgccctt gttgtgtcaa caatcgccag ccctatcttt 240
ggtgcagtca ttggtacaaa ccatcagggc acaacagctg cagcaactcg tgctacctgt 300
gatcaaccaa gtagctctgg caaacctttc tccctactct ccgcaacaac aatttcttcc 360
attcaaccaa ctgtctacac tgaaccctgc tgcttatttg cagcaacaac tattaccatt 420
t 421

<210> 9508
<211> 423

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-044-Q1-K1-E11

 <400> 9508

 gtgacaagga ccaaacctat gacctcaact ttaaggggga gaataatgat gggtcacaga 60
 agatatctgg cgatagctta aagaatgtat acaaatcttt tgtgagcgaa taccaccattg 120
 tttcgattga agatcctttt gaccaggatg actgggttca ctatgctaag atgactgaag 180
 aaattggaga gcaagtgcag attgttggtg atgaccttct cgtcaccaac ccactaggg 240
 ttgctaaggc tatcaaggag aaatcatgca atgcccttct gctcaagggt aaccaaatacg 300
 gatctgtgac tgagagtatt gagggctgtga agatgtcaaa gcgtgcgggc tgggggtgtga 360
 tgactagtca taggagtggg gagactgagg acactttcat tgctgatctg gcagttgggt 420
 tgt 423

<210> 9509
 <211> 95
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-044-Q1-K1-E12

 <400> 9509

 ggcaggcggt ccatcactcg tccggtaggg tttttcagag atactccgaa agcatggggc 60
 ggacatactt acccattgca atgcaaacag attta 95

<210> 9510
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-044-Q1-K1-E4

 <400> 9510

 cgacgggggt ttccaacgcc ggattggacc atccggaacc ttaggcccaa gattcggttg 60
 cattcagtaa tgcctttgcc taaatcagac ctgggggtcat aactctttag tagagaacca 120
 agaagatgca ggcattctagg gcaaggcttt tcaaggagta caaggaggta cagcgagaga 180
 agtcagctga ccctgatatc caattaatat gtgatgattc taacatatc aagtggactg 240

ctcttatcaa gggcccttct gaaacacctt atgaaggtag tgtgtttcaa cttgcattcg 300
 caattccaga acaataatcc tttgctgcct cctcaagttc gatttttgac caaacttttc 360
 caccaaattg tccttttcag gacaggtgag atttgtctgg atatattgaa gaatgcat 418

<210> 9511
 <211> 436
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-044-Q1-K1-E6
 <400> 9511

aagaaaagga accagatcca gagaagaagt ggtagtggcg atgccgccga gggcagcgcc 60
 gtcgctcgtct ctcttgccgc ttgcactcgc cgccgtcgca gtcgtcgtag cacttgccgt 120
 ttgctcctgt tccgcgacca cagatgctcc aggccctggga gcgggagcga gagagatggg 180
 ggcacggggac gaccccaagt gcgaggagat ggtgcctcgc accttcaggc gctgcatcca 240
 gtactgcgtc agcatagggc tgcagcctgc agcccaaggg gttctgcaac tccaagccca 300
 acatgcaggt ctactgctgc tgcgtcatcc cctagcatca tagctcctcg tcaacacacc 360
 taaatctgca gccctgctag agaagatacg atctctatgc agattagctg cagcgatata 420
 tatagatgga tgaatc 436

<210> 9512
 <211> 423
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-044-Q1-K1-D10
 <400> 9512

ctcgtagaga gaaggaaaaa tacccttaaa ccctagctcc cgatctcgat ggcgaaccct 60
 cgcgctcttct tcgacatgac cgtcggcggc gcccggcggy gccggatcgt gatggagctg 120
 tacgccaacg aggtgcccaa gaccgaggag aacttccgcy cgctgtgcac gggcgagaag 180
 ggcgtgggca agtccgggaa gccgctccac tacaagggct ccaccttcca ccgctcatc 240
 cccgagttca tgtgccaggg cggcgacttc acccgcggya acggcaccgg cggcgagtcc 300

atctacggcg agaagttccc cgacgagaag ttcgtgcgca agcacaccgn ccccggtgtg 360
 ctctccatgg ccaacgcggg gcccaacacc aacggctccc agttcttcat ctgcaccgtc 420
 gcg 423

<210> 9513
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-B7

<400> 9513

cccacgcgtc cgccccacgg ttcgcccacg cgtccgcgct ttgttgttct acgagggcag 60
 tgtttatact attatctgaa atgtacagat ctgagcccac aggaatctac actcttatgt 120

gatgttgttg aagtagggca gcttccagac tttgtgccag aagatgaaaa gacgagatat 180
 gcgttttacc tgttgacctg tcaagggttg aggtttgaat gctccagtac ctccgaaata 240
 caggttgatt catgggtaag agcactgtca agtgactgca aattgcagga tggcgctggt 300
 gatgataaga tgatgaatac gaggagtagc caagtagaag ctgggtcatc atggtagacg 360
 atgtatggag tgctgtacag tacaatagtc aatgaaatgt acatacatta catgcatgta 420
 aagggagcaa catatgtacg tagtagacg 449

<210> 9514
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-B8

<400> 9514

attttcagca ttcaaaaaca caccaagcga agcgcactag caacgaccta acaccaatgg 60
 ctaccaagat attagccctc cttgcgcttc ttgccctttt agtgagcgca acaaatgcgt 120
 tcattattcc acagtgtca cttgtctcta gtgccagtat tccacagttc ctcccaccag 180
 ttacttcaat gggcttcgaa catccagccg tgcaagccta caggctacaa ctagcgcttg 240
 cggcgagcgc cttacaacaa ccaattgcc aattgcaaca acaatccttg gcacatctaa 300
 ccctacaaac cattgcaacg caacaacaac aacaacagtt tctgccatca ctgagccacc 360

taaccgtggt gaaccctgtc acctacttgc aacagcagct gcttgcaccc aacccaattg 420
ctctggcgaa cgtaactgca tacc 444

<210> 9515
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-B9

<400> 9515

tgagaaattht aatatgggcc acatcgaagc ctggaggcta accggtattg gattacctct 60
ggagcttaac tggtcggcct taaatggtgt ggatacagaa attatggatg tacatggaca 120
tgttgcaccg agtgagaagc acccaggaag cttattagaa ggthtttttgc atactcaaat 180
tagtaccatg gcagtgaagg ataatttggt agtagctggt ggthtttcaag gagagctaath 240
atgcaaacac ctagatcgag aaggaataag cttttgctgc aggacaacat atgatgataa 300
tgcaattacc aatgcattgg agatattcaa tacatctagt ggagctcttc acttcattgc 360
atctaacaat gactgtgggg taagagagta tgatatggaa agatatcagt tgtttaagc 419

<210> 9516
<211> 453
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-044-Q1-K1-C1

<400> 9516

cgactcccaa atactccaag gcgcgttatg atgagattgt gaaggaagtc tcacctgcc 60
tcaagaaagt tgggtacaac cctgataaga ttgcctttgt ccccatctct ggthtttgagg 120
gcgacaacat gattgagagg tccaaccaacc ttgactggta caaaggcccg accctgcttg 180
aggctcttga ccagatcacc gagcccaaga gaccttcgga caagccctg cgtctacccc 240
tgcaggatgt gtacaagatt ggtggtattg gaactgtacc ggttggtcgt gtggagactg 300
gtgtcatcaa gcctgggatg gttgtcacct tcgggtccaa tggcctgact actgangtga 360
agtctgttga gatgcaccac gaggetcttc aggaggccct tcctggtgac aatgttggct 420
tcaacgtgaa aaacgttgct gtgaaggatc tca 453

<210> 9517
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-C10

<400> 9517

ctgattgccc cataccttac atcaatgata gcttcagtat gtgaaaaccc agctctgcag 60
cgctataggc tccaacaagc aatcgagca agcaacatac ctttatcacc cttgatgttt 120
caacaatcgc cagccctatc tttggtgcag tcattggtac aaaccatcag ggcacagcag 180
ctgcagcaac tcgtgctacc tgtgatcaac caagtagctc tggcaaacct ttctccctac 240
tctcagcaac aacaatttct tccattcaac caactgtcta cactgaacct tgctgcttat 300
ttgcagcaac aactattacc attcagccag ctagctactg cctactctca gcaacaacaa 360
cttcttccat ttaaccaatt ggccgcactg aaccccgctg cttatttgca gcagcaaata 420
ctactaccat 430

<210> 9518
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-C11

<400> 9518

ccggattccc ggtcgaccac gccttcgggg gcccttggc cggccttctt ggcttagccc 60
ttggttgcca agctggccat taggggttgc agcctttccg atctcaagag gaaggtgagg 120
agtttgcaga gccggtacgc caaagcggtc aagaaaggcg cgccaccgag caaggatcag 180
gatcgccgtc tcttcgacct ctgcaagaac gtctggcctt ctgttagcaa tgccaaggcg 240
gttaccaagg ctgttacc aa ggcgtcggct aacggtggtg ctgggaggga gcctgacgag 300
atgtgtgagc tgtaccata ccttgaggag gaggtgagg cgcttcagag ggcacacccg 360
ggcttgttca agcgggagtt tgggatgatc gaagacagca aggcccggtc actggacgag 420
aggatcaaga agcagaggcg tgactgatg 450

<210> 9519
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-044-Q1-K1-C12

 <400> 9519

 aacctaaccc ggaccggccc ggcccggccg ccggccgagg tgcccgtacc tgccggggat 60
 ggtcgccgga tccatccacc atgggcggtg gcaacggcca gaagtccaag atggcccgcg 120
 agcgcaactt ggagaagaac aagggggcca aggggagcca gtcgagacc aacaagaagg 180
 ccatgagcat ccagtgcaaa gtgtgcatgc aaacattcat gtgtaccacg actgaagtga 240
 agtgccggga gcacgccgag gccaaagcatc ccaagacaga cgtgtaccag tgcttcccc 300

 atctgaagaa gtgaaaggcc tgaacttagc aaccagtgtt ggtttgggtc ctacgatcgg 360
 gccagggggc gttccttgtg ttgagggtgt tcattccgtg ttatcttccc gtcagtcattg 420
 cgtntctg 427

<210> 9520
 <211> 196
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-044-Q1-K1-C3

 <400> 9520

 cgagtgccga atactcatag gagcgatttg aagtgatggt gaacgtcgtc ttattctgcc 60
 tcggcaaaat cgggtatcaa gcctgttatg attgccttag tacagatctc tgcatttgag 120
 ggctacaaca tgatagagag gtcaaccaac ctagactggc acagatgccc gaccctgcta 180
 caggctatta accaga 196

<210> 9521
 <211> 304
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-044-Q1-K1-C5

 <400> 9521

cggacgcgtg ggcggacgcg tgggtagcaa catagaaagc acaatagtgt accaacggtg 60
 gcagccaaaa tattttgcct ccttatgctc cttggtcttt ctgcaagtgc tgctaccgcg 120
 accattttcc cgcaatgctc acaagctcct atagcttccc ttcttccacc gtacctctca 180
 ccagcgggtg cttcggtatg tgaaaacca attcttcaac cctataggat ccaacaggca 240
 atcgcagctg gcattctacc ttaatcacc ttgttctctc aacaatcatc agccctatta 300
 cagc 304

<210> 9522
 <211> 433
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-044-Q1-K1-C7

<400> 9522
 gttagaacga gcaagagaac ttttccatga agctgtccaa caggctcctc cagaggaaaa 60
 gaagccccta tatttacaat gggcaaaact ggaagaggac tatggtcttg caaaacgtgc 120
 tatgaatgta tatgatgaat ctgtaagagc tggttctggc agtgaaaaaa atggccatgt 180
 atgaaatcta tatagcacgt gctgccgaac tctatggtgt tccaaggaca agacaaatat 240
 acgagcaagc aattgaatct ggcctnccag acaaagatgt tctgataatg tgcataagat 300
 tcgctgaact agagagaagc cttggtgaaa ttgatcggtc gcgtgccatc tatgtgcatg 360
 catccaacta tgctgatcca aataatcctg acttttggaa gaagtggaat gactttgaga 420
 ttcagcacgg taa 433

<210> 9523
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-C8

<400> 9523
 cggacgcgtg ggcgcggcga ggccaccatg agcactctca agttctgccg ggaatgcaac 60
 aaatgtctgt acccgcgga ggacaaggag acgcgcaccc tctgtacgc gtgccaaacg 120
 tgcgagcatg aggagattgc cactgatact tgtgtgtaca aaagggttat ccgcaagcct 180

<210> 9526
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-A11

<400> 9526

```

cccacgcgtc cgcggacgcg tgggttttgt tttcaatttc catccaaga aaacttgcca 60
gggctacaaa gtgggatgcg atttgcctgg gaaatacaga gtagccctgg actctgatgc 120
tctggtcttc ggtggacatg gaagagttgg ccacgacgtg gatcacttca cgtcgcctga 180
aggggtgccca ggggtgcccg aaacgaactt caacaaccgg ccgaactcgt tcaaagtcct 240
ttctccgccc cgcacctgtg tggtttatta ccgtgtagac gaagcaaggg ctggacgacg 300
tcttcacgcg aaagcagaga caggaaagac gtctccagca gagagcatcg acgtcaaagc 360
ttccagagct agtagcaaag aagacaagga agcaacggct ggtggca 407

```

<210> 9527
 <211> 450
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-A3

<400> 9527

```

cgacgccacg cgtacgcgta cgcgctctaa gactcgctgg tcctggtacg cgagctggcg 60
aagactcaag ggggggcagg tgagcacgag gatgacgtca gacgaccgac caggacgagc 120
agcatatgca cgtgcatggt gtcacgaac ttcactctaa ctgtggtgga ggcgggcacg 180
gaagtgatac tctagcactg ggacgtcaag cggtcatgca acgtctaccg actgaacgtg 240
ctcaacatcc taaattcgct ccagtaagac tccgcacgtg ccgccatatg tactggacag 300
tatgcattga aagagttgca gtcccaagct gccaaagaa actctatgcc caaggacgac 360
aaacattaga tgatcttaca ccctgtttct tgtaatgcgg tagcagtttg aggtccaaga 420
ttttgaattg gtcctttaaa aaaatggatg 450

```

<210> 9528
 <211> 249
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-A4

<400> 9528

cgccgtccgt ttacccctgc cgacctgtgc tgccggtggt ggcgacttca cgggccggcg 60
ctagtgcgcc gactatacga cttgcctggc gcctgctatc tactacctat ctgctctgtg 120
tgctgcgcag cgtatgatgc tgatttggga cggctaataca agaaaggatc tctgctgact 180
cttaagcagt tgggttctgt cagtactaag catcggaat aaaatacccc tagatatgac 240
caataataa 249

<210> 9529

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-A7

<400> 9529

cagatttaga ggagctcgag gtcttggact tgcagacact agtttcttac ataagctgtg 60
caaggaagta tattcagcca cagttatctg atgaagctgc agaagagtta actcgtggct 120
atgtcgagat gagaaaaaga gggaatagcc ctgggagcag aaagaaggtc ataacagcaa 180
ccgctagaca aatagagagt ttgatccgtc tcagcgaagc attagcccga atgcggttct 240
ctgaagtggc cgaagtgcgg gatgttgagg aggcattcag gcttcttgaa gtcgccatgc 300
agcagtctgc gacggatcat gcaactggta cgattgatat ggatctgac atgacgggga 360
tatccgcaag cgaaaagcat aggcgggaga acctc 395

<210> 9530

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-A8

<400> 9530

cccacgcgtc cgcccacgcg tccgcccacg cgcccgattg agaccaacta gcaacataga 60
aagcacaata gtgtaccaac aatggcagcc aaaatatttt gcttccttat gtccttggc 120

ctttctgcaa gtgttgctac cgcaaccatt ttcccacaat gctcacaagc tcctatagct 180
 tcccttcttc ccccatacct ctccaccagcg gtgtcttcag tgtgtgaaaa cccaattggt 240
 caaccctaca ggatccaaca ggcaatcgca acaggcatct taccattatc acccttggtc 300
 ctccaacaac cgtcagccct attacaagag ttacctttgg tccatttggg ggcacaaaac 360
 atcagggcac aacaactaca acaacttggt ctagcaaacc ttgctgcata ctctcagcaa 420
 catcagtttc ttccattcaa ccaactggc 449

<210> 9531
 <211> 336
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-044-Q1-K1-B1

<400> 9531
 cccacgcgtc cgcgagcgcg tgggtgatct ttctgacagg gaggaccatg agtcgagtca 60
 ggatcttgga ggctcgtaa cgaggtctcc agatgcagca atcggtattc tcatgcgcac 120
 cctaaagaac gctccaggcc tcagggaaag gctactgaca ggccctagcg ccccggttcc 180
 tcaagaacct tcttactcc agagggtaat gaccgaggaa catggcagcg gcgcatcaag 240
 ctctgcaggg gtgccttctt ctcttctgag gtcaaggaca gcggcgagca cgctggagga 300
 gctgaacaag tacaagaga ttagagaatc aatact 336

<210> 9532
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-044-Q1-K1-B10

<400> 9532
 aggtgtacga cttcaggagc agtgtgttct ggtgatgcaa ttagtaagca tgatgtgcct 60
 catgttgaga actgcaacac tccaactgta gccgtgtgca caactttgaa gcgtgtagcg 120
 gagaaagttg tatcagagct agttggaagt gaaaggatgg ggagcaacaa cagtgtgaa 180
 ttgctggaga gtatggaaaa ggctgaaaat gtttgttttg gtgggaatgg agttagtcaa 240
 ggtggccttc cagaagagtt agaggtatga acaaggatac atcgtggaaa tcattactga 300

ggatcagtgg cgtcaacgac acataattga aggaagaatt gtggagatag ataagttcta 360
 ccgcttgctg ggtggaatgg taagtagctc aactcacaag tttccttctg gacacagatt 420
 tgcaattg 428

<210> 9533
 <211> 299
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-044-Q1-K1-B2
 <400> 9533

cccaaattggc ccaggaatt ccatcgaaag gccgtcaccg ggggaataaa gggcgctcgcc 60
 gcttaccacc agccaccgcc gcctaatact cgaagccgcc gcctgctctc ctgctcgccg 120
 tgcagcgcag cgccggacct nctgcgtgcc ggggtgggcc attccgcaca acccgctccc 180
 gagctgccgc tggtagctga ccagccggac ctgcggcatc gggccgcgcc ttccgtggcc 240
 ggagctgaag aagagatgct gccgggagct ggcgacatc ccggcgctact gccggtgca 299

<210> 9534
 <211> 443
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-044-Q1-K1-B4
 <400> 9534

cccagcctcc ggccaagcgt tcggccaagc cttcgccgac cccttgggaa ctttgggtggt 60
 taattaccac cggcaccggt tccaacattt aagccggtta ctttaaggtta ccccggtggc 120
 cttctggaca cacacagttg ttgccgttct acctgcacgc tgcgcctaac gctggcacc 180
 tcttacaact gcaacaattg ctgccattca accaacttgc tttgacaaac ccaacaacgt 240
 tctaccaaca acccatcatt ggcggtgccc tcttttagat tgcttatgag ttatagttca 300
 ataatgaagt tttttggatg atgtttgtgg cttccagaa ataagaaatg tactttctta 360
 cttcttctctg gagagaaaaa gcagaagaca atacaaagat gtccaagatg gcggaggaga 420
 aggcggcngc agtgggcgga ctc 443

<210> 9535
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-B5

<400> 9535

ctgaaaactc ttgcaatgac cacaaatgga attgttcttt caaagaaact cccaaaggtg 60
aaagaatgtg gactcaatgc tttaaataata agtttagata cactagtacc tgcaaagttt 120
gagttcatga caaggcgtaa agggcactca aaggtcttgg aatcaataga tgctgctgta 180
gaacttgggt atagccctgt taaggccaac tgtgtcatca tgcgtgggtat aaatgatgat 240
gagatctgca attttgttga attgacgaga cacaagccca tcaacgtagg atttattgag 300
tttatgccat ttgatggtaa tgtttggaat gtgaagaagc tagttcctta tgcagagatg 360
ttggacaaag tgcggcaaag ttataaagga gtagagagac ttcaagatca cccacagac 420
ac 422

<210> 9536
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-A10

<400> 9536

gtgcgacaag gacttcgaga ggtgggtgtg tgtgcatgca tgcattgcaa cgcaacgtac 60
agctctttca tccagacgat cacatgatcc aaactgacct gtgattagga tggctcttggg 120
tttcttacgc gtcgtgacca cggcacacgt gtgactgacg gctgcagggc ggagatgtac 180
ttcaagcagg cgggtggccgc cgagccggcg gacggcgaag cgatgaggag gtacggcatg 240
ttcctgtggc acgcccgcgg cgacacgggc ggcgcggagg acatgttcac cggcgccatt 300
gacgcggagc ccgagagcag ccaccaccgg agcagctacg cgtgggttct atggatgacc 360
ggcggcgctg agacctgcct catggacacc ggcaggcaga ggcacggcaa cgacgcggat 420
tgaacc 426

<210> 9537

<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-G7

<400> 9537

gagactcaac tgcacatag gctgactct cgtgtgcgaa ctttgggcac cacgctggtc 60
gcactgctta tgctacacga ccgctccgca cgcgctgcta ccatgaccat cttggcggaa 120
tgcttactgg ctactatagc ggatctactt ccggcataac tctgaccatc gacgtcacca 180
agatgtgcat tcgaattcca tcaacgctac aggacactag atgtagcgac agcactgac 240
ataatgtata ggagcgtaag acgtcgaaca catacatctc atactacctc agatgcgtat 300
agagcttata cagacacgtt gcatgtcgat gctcagatac gtctactgca gctattaaac 360

cttgctgcct tagcatatgg acaactggaa gctttggcgc aatta 405

<210> 9538
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-G9

<400> 9538

cggacgcgtg ggtgcgcttc ttgccctttt tgtgagcgca acaaatgcgt tcattagtcc 60
acaatgctca cttgctccta gtgccattat tccacagttc ctcccaccag ttacttcaat 120
gggcttcgaa cacctagctg tgcaagccaa catgcaacaa caagcgcttg cggcgagcgt 180
cttacaacaa ccaattgccc aattgcaaca acaatccttg ccacatctaa caatacaagc 240
catcacaacg catcagcaac aacagttcct accagcactg agccacctag ccatggtgaa 300
ccctgccgcc tacttgcaag agcagctgct tgcacccaac ccacttgctc tggcgaacgt 360
agttgcaaac catgctcatc atcagctaca acagtttctg ccaacgctca gtcaacta 418

<210> 9539
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-H10

<400> 9539

aggcgaccct cctccttcg ctccttcgc gccgtctgcg ggccgtcgcc gccatggtga 60
agtactcgca ggagccgggc aaccctacca agtcggctaa ggccatgggc agggatctga 120
gggtccactt caagaacaca agggagacag cttttgcgct tcgcaagttg tctttgacca 180
aggctaagcg ataccttgag gatgttattg ctcacaagca ggcaattccc ttacggagat 240
actgtggggg tgttggtcgc accgcgcaag ctaagtcgcg ccaactccaat gggcagggcc 300
gctggcccg taaatcagcc aggttcatcc tggatttgct gaagaatgct gagagtaacg 360
ctgatgtgaa aggctcggat gtggacaacc tctatgtttc acaca 405

<210> 9540

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-H11

<400> 9540

aaaaaacaaa aataaaaaaa aaaaaattaa taaaaaaata attacaaaaa aaaatacggg 60
acaaaaaaaa aataaaaaaa atactcacia tctcctggca cccattccaa gtctcctaag 120
gtcatgttca cgtatcttct actccacttc actaacatca tgcacactac cttctttctt 180
tgcccgttct ctttacacat tctaactga tacctccttg atgttaccga tctcaatcac 240
ctttttccat ttccgctttt ctccaactgt ctttttccct ccgtgcccc taactatcgc 300
cactcccatg agctggggcg cttgcccgc aaatgagcca cgctcctcct ggatctttta 360
aagactgctg ccagtttcgc tgct 384

<210> 9541

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-H3

<400> 9541

cccacgcttc cggccacagc ctgcgaaaga aaatacgggtg gtaggtcgca taggcaacgg 60
ctgcatcttg ctactatcgc cttgatggca gagacaaaat acagcgggtg cgccttctac 120

agctaccaac gcaagctaca ctatagtagc atgtaactac agctatagct accctcgcaa 180
 ctgctactgc aactccgacg ttaaacagag gaactaatgc gaaaaccctg cgcgggtcaaa 240
 ttatactgaa cgctaacgag atgcccaccc tattacatag ggttt 285

<210> 9542
 <211> 392
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-043-Q1-K1-H5
 <400> 9542

cggacgcgtg gggtttcgcg tataggaggg agaacaaagg tcgcgtctcg aaagtctctg 60
 ccttggttggg aagggatggc gtcggaggtg gaggacgacg cggcgggtgcc gggcgcgcgcg 120

ctggctcgcca atggtgcagc cgacgtccgc cggaggaggg atcaggctaa ggcgattttg 180
 tccaagcagg ccgtcaagat cgccaccaag gccgagcagc acgagcgctt catctttaag 240
 gtcatttccc cgaccctgcc tccgtttaat ctctttatta ccgcctttct tgtgcagttg 300
 acgtccacaa atcttgccgc tcccgtgctc cttttctttt gtggaggtca ttgtgtgatg 360
 taataagtac ctgcacattt attggtcgca ct 392

<210> 9543
 <211> 337
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-043-Q1-K1-H7
 <400> 9543

caacaagcaa catagaaagt ggaatccagt agcaacaaca gagcatcaat ggcgaccggg 60
 atattttccc tccttatgct ccttgctctt tctgcatgtg ttgctaacgc gacaattttc 120
 cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaatgata 180
 gcttcagtat gtgaaaaccc agctcttcag ccctataggg tccaacaagc aatcgcagca 240
 agcaacatac ctttatcacc cttgttggtt caacaatcgc cagccctatc tttggtgcag 300
 tcattgggtac aaaccatcaa ggcacagcag ctgcagc 337

<210> 9544

<211> 329
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-043-Q1-K1-H8

 <400> 9544

 cccactcgtc cgagcaaagc ggcagtgcgt atagaggatc gtcgaacaga acagcatgca 60
 tatgggcagg gttctcgtcg tgtgcctagc tctgtcagct gccatcgct ctgcaatgca 120
 catgccctgc ccctgcacgg tgctgcactg ctagtactgc gctggcgccg gcctgactac 180
 catgatggac gcctgcagtc tgtacccata cacgtagtac ctgatgcagc ctcagtgcag 240
 ccctctgacc ggggcgcact actacaccag ccgtggtcag tcaaccgcca tgttccatac 300
 gctccgggca cagttctgtc cacaccata 329

<210> 9545
 <211> 315
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-043-Q1-K1-H9

 <400> 9545

 gagcaatgct tatacctgat gctgtaactg atcagtccca caatggatgc taggcgcgct 60
 cggctacata agcactacca tatagcatag aatgctattc tatgaccatc ctacagatca 120
 cgaattcatc caaaaccaac ttcttgatcc tcgtacaccc atgggacgca tagtcagtac 180
 ggctgattat gcttacagaa tatcagattt aggagtggct atgaattgat cactgtgtta 240
 tgaacattaa catcctatgc actatgtgca acagatcgat gatcatagac tcaatgcgat 300
 caacatctac aagac 315

<210> 9546
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-044-Q1-K1-A1

 <400> 9546

 ctaattctct ctcagatcgt ccagtgcctat ttagttatct acaccgtacc tgtctgtgct 60

tcgagttctc agtttttagt ggcttattgg tgaaaatttg ttatccgttt gaaatttctc 120
atgcgaacga ggagaaggag atttgacagt gccttggccg tcgacacaat ccgccaacac 180
at ttgatcat taccagcttc tgcaatatgc tctagagagc ctggtttgta caaataaagg 240
gagaacaggc agatttttgt acagcctgat ggcatagcgt tagccattgt atcatataca 300
aggactggcc cgagcgaata cgctcctgga gtccttttgc acaacgagag caccacagga 360
tgcattcggt tgtgattgtc tgcaatagaa attgcatgac ttccaaattt tccagaccgc 420
cagcg 425

<210> 9547
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-G5

<400> 9547

attgatcgct gcgcttacgt cactgagacc gtccttgctg cctgctacaa ggcgctcgac 60
gagcaccatg tcctcctgga gggtagcctc ctgaagccca acatgggtgac tccaggctcc 120
gactccaaga aggtgacccc tgaggtgatt gctgagtaca ccgtccgtac cctccagagg 180
accgtccctg ctgctgtgcc tgctgttgct ttctctctg gtggacagag cgaggaggag 240
gccacccgca acctcaatgc catgaacaag ctcagcacca agaagccgtg gtcctgtct 300
ttctccttcg gccgtgccct tcaagcgagc acctcaagg cctgggctgg caaggtggaa 360
a 361

<210> 9548
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-E8

<400> 9548

cccacgcgtc cgctcgcatc cgcagcctct cgagctctac tccatcccct cgatctcgaa 60
gcgcagcagc agcagtcagg cggccatgga cgccagcgca gcaggagccg gcgggaaggc 120
gaagaagggc gcggccgggc gcaaggccgg cgggcccagg aagaagtcgg tgacgaggtc 180

cggtcaaggcc gggctgcagt tccccgtcgg cgcacatcggg cggatatctga agaagggccc 240
gtacgcgcag cgcgtcggca cgggcgcccc cgtctacctg gccgcgctcc tcgagtacct 300
ggccgcccag gtgctggagc tggccggcaa cgctgccaag gacaacaaga 350

<210> 9549
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-F1

<400> 9549

ggcaaatacag agaaggctag tggccgaaac ataaaagcaa tagtcgcact cttgttaggg 60
ctctgatctg aatgtctaata cccacaggac acattttgta aaaaggcggg agcttcttta 120
gccttattag actggaata cactcaactg aatgatgtcc agttccatca acaaggcttc 180
accgagactg tcgagtgcact gatcacgac atgttttttt tttcacagtt tgcttctgtg 240
cagttgccta ataaacccat tcgttgtaaa caagccagtt ctaactttaa aaaaaagggc 300
ctgtgcatgg cgctct 316

<210> 9550
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-F10

<400> 9550

gtgctcagcg acctcaccgg catcaacaac agcaacgggt gcttcttacc gagggagcgc 60
gcgcggggttg gcgacttggc cggcgcgacc ttgaacttgg acatgcaagg tgaacgctct 120
ctgctgccgc tagtgtcagc tccggtgccg ctgccggtgc ccgaggagga cgtgcagaac 180
aggttgctct gctctgcctc cgcgtctacc agtggacacc ctacgccag cgtctcgcca 240
gtgtctcacc tgtaccgaca ctgcgtcgag attgacgcgc tagtccgcat cgagaatgag 300
aggctgcgag cggcgtgca ggaggcgga cgccggcact ttcggactgt ggtgctgtca 360
gcggaacgtg cagcggctcg gcgcctgctg acagacgat ccgaactggg acgcgccatg 420
ctg 423

<210> 9551
<211> 258
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-F11

<400> 9551

acgacgcgtc cgcccacgcg tcccttcacg cgtccggcgt ctccttcgac atcgaaggta 60
gcctgggtgc tctgttccg cgtggagaga acgcgagtac ccgacccgat tgtgctctct 120
catttgcacc caaacggggc aacgttacat ctactcgcc cgatctgaac actgtactcc 180
acgcagaacg attggaacat cctgatcgat attacttgac tagacaccta cactttcgaa 240
cgcgattcca ctatcagc 258

<210> 9552
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-F12

<400> 9552

cttttttgtc cattttaaaa aaaagtactc attattataa tttagaaacc tgtgccggat 60
taaaagcaac acgagagacg aaaacagaga gccagcaaag caaacccaag gacattgagg 120
tgctgctctg ctacggtacg tgctacggca tgtcacgtac gaggtacacg acgacgacga 180
cgacagggga cactagacga agtgatcact agtgggtgca tgatctactt ctttattata 240
ataatgagta cttttttgtc catttt 266

<210> 9553
<211> 225
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-F2

<400> 9553

tgatgatctc ccccgaggac ccgtgcaagt gcttcgtcaa gcgcgtaatc cggatgcacg 60
ggatctccgt cacctacctt gtcgaccccg gcataagcga ctgcttcttc agaaccgctg 120

ttgtaccgca agatcatgtc tgggtgcacg gcgataatat ctttgcttct catgattcca 180
ggcgatttgg atccccgcct tattggctga ttacacggaa aatat 225

<210> 9554
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-F3

<400> 9554

agtacgtgtt gcaggcggaa gaagcgctaa ctgaggagct acttttgata cggacagggg 60
tgactcatat agtgcctcca ctgattccac gagatcgcat gatcgatatct agtcagatga 120
tgagcttgcct atgtcgacaa caagactgtc tgctaattgca gcgaatacat acgatgctgc 180

attgtacgca taggccgatg ctgctatatc cataaacgcg gacactttct gtgtactgtt 240
agcaactgca tgatactaga tcagagtata tatacgtagt gtgacatcgt gct 293

<210> 9555
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-F4

<400> 9555

atagaaagca caatagtgtg ccaacattgg cagccaaaat attttgctc cttatgcggc 60
ttgggtctttc tgcaagtgtc gctacggcga ccattttccc gcaatgctcg caagctccta 120
tagcttccct tcttcccccg tacctctcat cagcgggtgtc ttcagtatgt gaaaacccaa 180
ttcttcaacc ctacaggatc caacaagcaa tagcaactgg catattacct ttatcacct 240
tgttccctcca acaatcatca gccctattac aacaggtacc tttgggtgcat tcattggcac 300
ataacatcag ggcacaacaa ctacaacaac ttgcgctagc aaaccttgct gcctactctc 360
agcaacagca gttt 374

<210> 9556
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-F5

<400> 9556

gatcagcaaa gcggcagtcg gtagagagga tcgtcgaaca gaacagcatg aagatgggca 60
tcgtttctcgt cgtgtgcctg gctctgtcag ctgccagcgc ctctgcaatg cagatgccct 120
gccccctgcgc ggggctgcag ggcttgtacg gcgctggcgc cggcctgacg acgatgatgg 180
gcgcggggcgg gctgtacccc tacgcggagt acctgaggca gccgcagtcg agcccgtctg 240
cggcgggcgc ctactacgcc ggggtgtggc agacgagcgc catgtaccag ccgctccggc 300
aacagtgtct ccagcagcag atgaagatga tggacgtgca gtccgtcgcg cagcagctgc 360
agatgatgat gcagcttg 378

<210> 9557

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-F6

<400> 9557

catagaaagt ggaatccagt atcaacaata gagcaacaat ggcgaccaag atattgggcc 60
tccttatgct ccttgctctt tctacatgtg ttgctaacgc gacaattttc cctcaatgct 120
cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaattata gcttcaatat 180
gtgaaaaccc agctcttcaa ccatataggc ttcaacaagc aatcgcagca agcaacatac 240
ctttatcgcc cttgttgttt caacaatcgc cagccctatc tttggtgcaa tcattggtac 300
aaaccatcat ggcaaacag ctgcagcaac tcgtgtacc tctgatcaac caagtagctc 360
tggcaaacct ttctcctac tctcagcaac aacaatttct 400

<210> 9558

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-F8

<400> 9558

gtctaattgc tgctgttata gctgtttgga gcacagcttt gcaacaatac gtgagtggta 60

gcaccttttaa atgcagattt cttatacgtc acctaaccag taagattgct tgctacctcc 120
 tgtttgcaat tacctgcaag ttcgtcggtg cgctttgagc cttttcaaag gacaatatgg 180
 cacttcagtg acagtgatac ttgtttatta tggaaagtgt ttgataatta gcagttgtca 240
 aattattcat tgggatcacc gcagcttttag gatataactc cttttttttc tggagattat 300
 gaatagccac tcaccatggc cacttgatat ctttcatact tgaattgtca gacttcataa 360
 atgtgctcat gaatcatgat gccactaata tattgttctt tacacaaa 408

<210> 9559

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-F9

<400> 9559

cgacaacat tggtccgcaa tgctcacaag ctactatagc tcattcttctc gcgagaggcc 60
 tcttaccagc gtggccttca gtatgtagaa aacctaatta ttcaacacct acaggatcca 120
 tcatgcaagc acagcatgca tcttaccttt atgcaccctt gatcctccaa caatgataat 180
 ccgtatcaca tcagtcacct atgtctgcatt aattggcaca gatcatgatg gcacaacatc 240
 tacaacatct cgagctagct caccttgctg tctacactca gctacagcag ttacctgaga 300
 tgctaattgat ggacacaaac atgacgacac atcatctaca tcatttagtg cta 353

<210> 9560

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-G10

<400> 9560

cgcaaattgc accaagaaat ccatcgagag gccgtcgaca ggggaattaa tggcggggtc 60
 gtctagcagc agccaccgcc gcctcatcct cgcagccgcc gtctgtctct ccgtgtctgc 120
 ggctgccagc gccagcgccg ggacctcctg cgtgccgggg tgggccatcc cgcacaaccc 180
 gctcccagc tgccgctggt acgtgaccag ccggacctgc ggcatcgggc cgcgcctccc 240
 gtggccggag ctgaagagga gatgctgccg ggagctggcg gacatcccgg cgtactgccg 300

gtgcacggcg ctgagcatcc tcatggactg cgcgatcccg ccggtcccg acgcgcagct 360
 ggagggccgc ctagaggacc tgaccggctg cccgcgggag gtgcataggg gattcgccgc 420
 caccctc 427

<210> 9561
 <211> 337
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-G12

<400> 9561

cgcacgcgtc cgcgtacgcg tgggctgacg cgtgggcgct actgccgtac ccagggcggg 60
 agtccggcag catggacgag gctgcctaag cgtgcgcaat cgtctcttgg acagcctact 120
 gtccacgacc gctgacgcaa tctccaagtt cgacagcata gccgatagga tcagcatctt 180
 ctgctcgtec gacgaggctg cggaggcctc tatctctacc ttgaagaacc ttacttgtga 240
 ctggtaactc gcagctatgc tgtaccacag cttatcgtaa cactactccg cgcagtctct 300
 cagagcgatc aatgaggacg taagcacgct tgtcttc 337

<210> 9562
 <211> 328
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-G2

<400> 9562

gcgcagcggc ggcggagctg ctgtacctcg cctacaacgg tgacaaggag gtgacgtgga 60
 gtgaagcttg cggcgttttc ggcagcttct gccgtcaggc gcgcaccttc gtcgccatca 120
 ccttcggcac cgtcctctgt ttcatectcc tgtccctcat ctctcgtac cgccttttca 180
 gcgcctacga ggcgcccccg tcgtcggcgc tcggcagcaa gggcgtcgag atcgccgtct 240
 acccgcgctg aagccgctgg aggaaggcct cgttgcaaat ctctgggatg cgtagtcgat 300
 catgtaataa tggcttatcg catatata 328

<210> 9563
 <211> 415
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-D11

<400> 9563

cggacgcgtg gggcaaacac gaccatacat ttattgcgac cgtacaaaca ttgtaacaaa 60
aggcagcagc gagctagtat agctccacaa gaaaacatcc tcatcctctt cctttcttag 120
tagggctcca ctggtgccct gaactttgct cggcgctaga ccgcggcatc accgagctcc 180
tcctcgatcc tgagcagctg gttgtatttg gccaggcgct cagaccggca aggagctccc 240
gtcttgattt ggcccgtaga caggccaact gagaggctcag caatgaaggt gtcctctgtc 300
tcgccactcc tgtggcttgc catcactccc catccggcgc gcttggacat cctgacagct 360
tcgatactct cggtcacaga cccgatttgg ttcaccttca agaggagagc attgc 415

<210> 9564

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-D12

<400> 9564

gataattttg tggactacaa agaccggaaa attattcttt cttcaggcag tgaaaagaag 60
cttgaagagg ctgcccctgg gcttatttta cggaagagaa agtctgctga cgagtcagtt 120
gccagcgagg caaattcatc ttcggttgaa agtgaagcat cagttgctga tgctgtggcc 180
cttctgctta agcataaacg tggctacaa acctcagaag aaatggagaa tgagactgaa 240
ccatattcta gcaagaccga agggaagaag tcgaaacaaa aacgtgtatt gggcccagca 300
agaccagatt tccttgaagc cagacaagac tctgaaacat gggtgccacc tgaaggtcaa 360
actggtgatg ggcgcactgc attgaatgac cgtttgggtt attgaaaagc tcttcagca 420
acagtt 426

<210> 9565

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-D7

<400> 9565

cgagcgctcc tttctagcct tcacttctca gcacggctgc ctttgacccc cgactgcggt 60
cgtcagcacg tccatggagc aagccgacat gccagacgtt ccccgcgtaa agctaggcat 120
acagcggcctt gaggtgtcta agctggcggt cggtgcatg gggctaacgg gcacttacia 180
cacgccactc ggcgacgagg ccatggccga cgtcttcgcg cactcgtttc gtcgagggat 240
cacctgttta gacacctgct attcctacgg gccacggacc aactagaccc tactggggaa 300
ggcgctcaag catctgccga gggagcaatt gcatgttgcc accaagttcg tgataa 356

<210> 9566

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-D8

<400> 9566

cccacgcgtc cgcccacgcy tccgttgtca cgtgggcttc ctctggctct gctgtgaggt 60
gcaagcattg ctgatgctgc atgtgtgtgt gcgatcagtg actggctgct ggttcataga 120
acatgaactg aaagaaggat gattaagggc tttgtcaatc gccgttacia ctgcatccca 180
tgcgcatgct cgcttagtag attgggtata atttggcttg gcacaccag catcattatg 240
tgctgatctg ttatccttta ctagctaggt cgcccgatat atctctacct ttttggggaa 300
tggtctactg tgtactgaaa 320

<210> 9567

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-D9

<400> 9567

cgcaaattgc accaagaaat ccatcgagag gccgtcgaca ggggaattaa tggcgctcgtc 60
gtctagcagc agccaccgcc gcctcatcct cgcagccgcc gtcctgctct ccgtgctcgc 120
ggctgccagc gccagcgccg ggacctctg cgtgccgggg tgggccatcc cgcacaaccc 180
gtccccgagc tgccgctggt acgtgaccag ccggacctgc ggcacggggc cgcgcctccc 240

gtggccggag ctgaagagga gatgctgccg ggagctggcg gacatcccgg cgtactgccg 300
 gtgcacggcg ctgagcatcc tcatggacgg cgcgatcccg ccgggcccgg acgcgcagct 360
 ggagggccgc ctagaggacc tgccgggctg cccgcgggag gtgcagaggg gattcc 416

<210> 9568
 <211> 313
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-E10

<400> 9568

aagcgtcta tcaacgacct aacaacaatg gttccaagg gattatccct cttgcgctt 60
 cttgcccttt ttgtgagtgc aacaaatgcg ttcattattc cacaatgctc acttgctccg 120

agtgccatta ttccacagtt cctccctcca gttacttcaa tgggcttoga acacccatct 180
 gtgcaagcct ataggctaca acaagcgctt gcggcgagcg tcttaaaaca accaattgcc 240
 caattacaac aacaatcctt ggcacatcta accatacaaa ccatcgcaac gcagcagcaa 300
 caagcactga tcc 313

<210> 9569
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-E11

<400> 9569

ctactatact atactctagg aagcaaggac accaccgcca tggcagccaa gatgcttgca 60
 ttgttcgctc tcctagctct ttgtgcaagc gccactagtgc cgacccatat tccagggcac 120
 ttgccaccag tcatgccatt gggtagcatg aacccatgca tgcagtactg catgatgcaa 180
 caggggcttg ccagcttgat ggcgtgtccg tccctgatgc tgcagcaact gttggcctta 240
 ccgcttcaga cgatgccagt gatgatgcca cagatgatga cgcctaacat gatgtcacca 300
 ttgatgatgc cgagcatgat gtcaccaatg gtcttgccga gcatgatgtc gcaaattgatg 360
 atgccacaat gtcactgcga cgccgtctcg cagattatgc tgcaacagca gttaccattc 420

<210> 9570

<211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-043-Q1-K1-E12

 <400> 9570

 cggacgcgtg ggcggacgcg tggggaagag gaagaacccg ctcaagaaca tgggtgctgt 60
 gctcaagctg aaccctacc tcggcactgc ccggaagatg gccacccttg ctgaggctgc 120
 ccgagtcaag gcccggaagg agaagcttga ttccaagagg accaagctta cctcggagga 180
 gactgccaag gtcaaggctg ccggcaaggc gtggtacaag accatgatct cggacagtga 240
 ctacaccgag tttgagaact tcaccaagtg gctcggagtg acgcagtga gcggcctttg 300
 agacctagtt aagttttgat tagttgtgtc gctgaacttt gtattgagac gaaatagtat 360

tttatcaatc tgtcttatcc tgcattctca caacaagtta cctatct 407

<210> 9571
 <211> 149
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-043-Q1-K1-E3

 <400> 9571

 ctgtgctgaa aacagaaatt gatggtctgc aacaggaact tgttcacgtg aggactgctt 60
 gcgggttaga gcagaagggg aatttggaat tgctggaaca aaggaaggca atggagaaga 120
 atatgctttc tatggcacia gagatcgag 149

<210> 9572
 <211> 365
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-043-Q1-K1-E5

 <400> 9572

 cggacgcgtg gggttcagaaa cacacctagc gaagcgcact agcaacgacc taacgacgat 60
 ggcttccaag acattatccc tccttgcgct tcttgccctt tttgtgagtg caacaaatgc 120
 gttcattatt ccacaatgct cacttgctcc gagtgccatt attccacagt tcctccctcc 180

agttacttca atgggcttcg aacacccagc tgtgcaagcc tataggctac aacaagcgct 240
 tgccgagcgt gtcttagaac aaccaattgc ccaattacaa caacaatcct tagcacatct 300
 aaccatacaa accatcgcaa cgcagcagca acaagcactg agccacctag ccgtgggtgaa 360
 cccta 365

<210> 9573
 <211> 368
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-043-Q1-K1-E6
 <400> 9573

cccacgcgtc cgctcttgca actccagtgc ttctcactgc cactgccagc aggtcgagct 60
 gctccgcaag tctgctttgc tgctgcacct gcaagtctgc aaccgcgcac agagatgtcg 120
 acgactgtga gccgtgcgtc cctcgaccag aaactcgccc tcgccaagcg ctgctcccga 180
 gaggcgaccc tcgcccggagc caaggcggca gccgtggcga ctatcgcttc cgcgatcccc 240
 accctggcca gcgtgcggat gctgccatgg gccaaaggcca acatcaacc caccggccag 300
 gcgctcatcg tctacacggt ggctgggatg gcctacttca tcgccgccga taagaagatc 360
 ctgtcgct 368

<210> 9574
 <211> 359
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-043-Q1-K1-B4
 <400> 9574

agcacgcccc agctccacaa tttggcggac gagatggagg ccctccgcgc ggccaagggc 60
 gacctgtagg agaagctcga tgccgtggga cagagaacc ggttcctgtc ctctgagtcc 120
 cggcgctcgc aggtcctcgt gtcccaggcc cgcgaggagg tcgccgctgc cgagcaagtc 180
 gccgtacca acgagagcga ggctccacg ctccgcgcct aggtcgagcg tctccagggc 240
 cttctagccg cagagaaggc cagccatgat gaggagatgc gcatgggccc atggctcggg 300
 gaccagctgc agaccgcgta ccatgagaag gccgtccttg aggaggagat cgagaccct 359

<210> 9575
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-B5

<400> 9575

cccactcgtc cgcaactagc aacatacata gtgaagtaca ctagctacat cttagcggca 60
atgggagcca agatttttgc cctccttgcc ctccttgctc tttcagcaag cgctgctacc 120
tcgactttta ttccacaatg ctcaacaaca tacctctctc cggtgacagc cgcgggattt 180
caatacccaa ctatacaatc ctacatggta caagaggcca tccaagcaag catcttacgg 240
tcattagcat taaccctgca acaaccatat gctctattgc aacagccatc cttaatgcat 300
ctgtatctcc aaagaatcgc ggcacaacaa ctacaacaac agttgctacc aacaatcaat 360
caagtag 367

<210> 9576
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-B7

<400> 9576

cgcaaacaca cggcagcagc agctgagcgc ccatggcagg tccccggcgt ctgctggggc 60
tgctcctcct accgctgctc gtgctcctcg ggcgcacccc gccgcagtgc gggctccgcgg 120
aggaggggac gaaggctctc ctggagctct actacgagtc gttgtgcccc tactgctcgc 180
ggttcatcgt caaccgtctc gcggggatct tcgaggacgg gctcatcgac tccgtccacc 240
tccggctcgt ccactacggc aacgcgcacg tcgcatccaa cagcaagatc tcttgccagc 300
atgggtccgta cgagtgtctg ctcaacaccg tggaagcttg cgccatcgac gcctggccgg 360
atccggatgt gcatttcagc ttcattctact gcgtg 395

<210> 9577
<211> 127
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-B9

<400> 9577

cggacgcgtg ggttcggctt ggttgatctc tctccttccc tctttgcgtc aggaagcggc 60
agcttgcaaa cctggtctca gcactgtaat tatttcttct gttctaccac atcttttggt 120
tggtgtt 127

<210> 9578

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-C1

<400> 9578

aagaaagaag ggtcccaagg tccttctagg aaaaaggata ctggtggaaa gatggccgag 60
ggttacagta agcgtcagat gatgaacatc aggcctgtga attacaactc catagacaac 120
gacattacat caagcactga cagcactact atataagttt atcatgcaag actattgcat 180
caagagtgtt gctgtctctt gcagcaagag acaacatgta tgtatacgct ggcgatcaat 240
agggcaacct gagctcttta ccagcagctt caaccaagtt ttacgtgcac acaggattgg 300
ctgacagaat tagcccaacg gacagctact ggaagtagga tcctgaagg ttatatcgat 360
ttacactttt tt 372

<210> 9579

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-C11

<400> 9579

cggcatctcc gtcgactacc tggccgcggt ggcacacctc cccaaccccg acgataagat 60
ccgcagcctc gccctcaagg tgcagggggg cggcaacact ggcaacgcgc tctactgcagc 120
tgcaagcctc ggcctccgtc ccaggatcat ttccaaggta gccaacgatg ctcaaggaag 180
aagcatcctc agcgaactcc aaactgatgg cgtggacaca tcctacatcc tggtcgcaga 240
gaacgggaac tcacccttca cctacataat agttgatgaa cagacgaaaa ctcgtacatg 300

tatacacact cctggttctc ctcccatggt gccagaagag ctacaaaagg caaacttgtc 360
gtccgcttta gatggcgtgg acatcgtcta cttcgatgta cgattgcatg acattgc 417

<210> 9580
<211> 426
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-043-Q1-K1-C12

<400> 9580

cgccgtcgcc ccgccgtggt gctcgccgac accgtcccgc cggcagccaa aatgccggtc 60
aagaggttcg tggagatcgg gcgagtggcc cttgtaaact acggcaagga gtatggccgc 120

ctcgtcgtca tcgtcgacgt cgtcgaccag aacagggctc ttgttgatgc ccccgacatg 180
gttcgttgcc aaatgaactt caagcggctt tccctgactg acatcaagat tgacattaaa 240
cgtgtcccaa agaagactac actgatcaag gcaatggagg aagctgatgt gaaaagcaag 300
tgggagaata gtcctatggg caagaagctg attgttcaga agaggagagc atcactcaat 360
gactntgaca ggttcaaggt catgttggcg aagatcaaga agggcgggtgc cattaggcaa 420
gagctt 426

<210> 9581
<211> 431
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-043-Q1-K1-C2

<400> 9581

gtttcagatg gtgtcgatcc aaagccgtca cagcgtgccg gtgagacgct tccagcagtg 60
gtgtatctac caaagaatgg gaagcatgtc aagattaatg ggaatcttgt tattaagtcg 120
attgttgcta gtgagaaagc ttcattgcag atgtctggca atgatgggaa gcgtcctcaa 180
aaccaagagg aggagactag actggcaatt cctggctatg tgactccatt gaaagctgga 240
gaggttatgg aatcaaccga aggaatgatg aacaatgaac tgttggcggt agctcctgca 300
gatggaagca tgtatagggg ggaagatgga ttgctgccac agtgggttag tgaagcaatg 360

tctggccccc tgctgagctc angaatgtgc actgaagttt tccagttcga tgtgttccca 420
tcatctgctc a 431

<210> 9582
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-C4

<400> 9582

cccacgcgtc cggcatattg caccaagaaa tccatcgaga ggccgtcgac aggggaagga 60
atggcgctcgt cgtctagcag cagccaccgc cgcctcatcc tcgcagccgc cgtcctgctc 120
tccgtgctcg cggctgccag cgccagcgcc gggacctcct gcgtgccggg gtgggccatc 180

ccgcacaacc cgctcccag ctgccgctgg tacgtgacca gccggacctg cggcatcggg 240
ccgcgcctcc cgtggccgga gctgaagagg agatgctgcc gggagctggc ggacatcccg 300
gcgtactgcc ggtgcacggc gctgagcatc ctcatggacg gcgcgatccc gccgggcccg 360
gacgcgcagc t 371

<210> 9583
<211> 173
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-043-Q1-K1-C5

<400> 9583

gtactcggtc tcggaattct ccgggttcgt acccacgtcg tctcgtcaga tgaagtctta 60
attgaggggt tatctcccaa gnggtcgtac ctgtcttcgt aaaggaaagt actggtggag 120
ttccacttta agtcgtaaga tgggatgaaa aacatagtct ctatgannat tag 173

<210> 9584
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-C6

<400> 9584

atcacatcgc catggcagcc aagatgtttg cattgtttgc gctcctagct ctttgggcaa 60
 ccgccactag tgctacccat atgccagggc acttgtcacc actactgatg ccattggcta 120
 ccatgaaccc atggatgcag tactgcatga agcatcaggg gggttgccaac ttgctagcgt 180
 ggccgaccct gatgctgcag caactgttgg cctcaccgct tcagccgtgc cagatgccaa 240
 tgatgatgcc aggtatgatg ccaccgatga caatgatgcc gatgccgaat atgatgccat 300
 cgatgatggt gccgactatg atgtcaccaa taacgatagc tagtatgatg ccaccgatga 360
 tgatgcaaaa catggtttca ccaatgatga tgccgagtat gatgccttc 409

<210> 9585

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-C7

<400> 9585

gtgaaagctg tctatagggg ggcagaatac attactacag ctactggtga tggggacttt 60
 ggtcttgtgc tggaaagtac aagtttctat gctgaacaag gaggccagat atttgacact 120
 gggagcattg aggggtcatt tggaactttc aatgtgaaca acgtccaagt gtttgcctggc 180
 tatgttctac atattggctc atttcaaaaa ggttcgaagg ttatgtctct tggagatagt 240
 gtgatatgca aggttgatta caaccggctc aactgattg ctccaaatca tacgtgtacc 300
 cacatgttga actttgctct aagggaagta cttggtgatc atgttgacca ga 352

<210> 9586

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-C8

<400> 9586

cccacgcgtc cgcggacgcg tggggttcgg gtgcggccca tgtgagaagg ctgcggtgt 60
 ttgcttccgc cgtcggcaag gaaggaagaa gagagcagaa ccctagctag agtttggcga 120
 gtggtgcgga ggcgcggctg ctctgctcg tcgcgacatc gaatttcagc gccgcccgcg 180
 cgatccttgg tctcttcgcc cgtgaggaga ggcgcggcaa tggctgggaa aggccgggccg 240

accaacctgg agaaggagca gatgtttggg atggcggaga aggagatgga gtacaggggt 300
 gatcttttca acaggcttac aaagacctgt tttgagaagt gcgttgaaaa aaggataaaa 360
 gaagctgagc tcaatatggg tgagaacagt tgcattgac gatgtgttcc 410

<210> 9587
 <211> 298
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-043-Q1-K1-B3
 <400> 9587

aaggctcata ggggcaccgg tcgggccctg gccataaacg agatcttcta gcgtaacgcg 60
 gcgacgatca agaactacgg catctggctg cgctaccaga gcagaaccgg ctaccacatc 120
 atgtacaagg agtaccgcga cacaaccctg aacggcgctg tagaacagat gtacaatgag 180
 atggcttctc gccaccgcgt gaggtcccc tgcattcaga tcatcaagac cgtaacgggtg 240
 cacttcaagc tgtgcaagag ggacaacaca gagcaattgc acaacagtga gatcaaag 298

<210> 9588
 <211> 397
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-042-Q1-K1-H9
 <400> 9588

cttggtcaaa ggaccaggat ttgccaagtc caaccagtcg cagttgctcc ggacagggtc 60
 gagagccgaa aggctctgcc agagaagtgg aggggcatga gagacgacga actttcagca 120
 gaaaccggca tccctggctg tgtgtttgtc cacatgagtg gcttcattgg gggcaacatg 180
 acctacgagg gagcattgga aatggcgaga gctgctctga aattctgatt caaccaaagc 240
 atattaccgg tgttaccatt atatcagtaa acacatcagt aacacatgat gcagttgcgc 300
 tttctccaat gttatcgctg actcgagccg tggctaactg cgactgattc ttgactgat 360
 cttctgttat cctcgtctta cagaagaggt cgattga 397

<210> 9589
 <211> 398

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-043-Q1-K1-A10

 <400> 9589

 attttgagca ttcagaaaca caccaagcga agctacctag caacgactta acaacagggg 60
 ctaccaagat attagccctc cttgcgcttc ttgccctttt tgtgagcgca acaaatgcgt 120
 tcattattcc acaatgctca cttgctccta gtgccattat accacagttc ctccgaccag 180
 ttacttcaat gggcttcgaa cacctagctg tgcaagccta caagctacaa caagcgcttg 240
 cggcgagcgt cttacaacaa ccaattaacc aattgcaaca acaatccttg gcacatctaa 300
 ccatacaaac catcgcatca caacagcaac aacagttcct accagcactg agccaactag 360
 atgtggtgaa cctgtcgcgc tacttgcaac agcagggtg 398

<210> 9590
 <211> 411
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-043-Q1-K1-A12

 <400> 9590

 ggaaactcta tgaatatcaa gagaaccata aaaggatata tcaatgctgg ttttgctgga 60
 attatgcttg aggatcaggt ggcacctaaa gcatgtggac atactgaagg aaggaaagtc 120
 atatcaaggg aggaagctgt catgcacata aaagctgctg tagatgctag gaaagagagt 180
 ggctctgaca ttgttattgt agcaaggaca gattctcgcc aagctatttc tcatgatgaa 240
 gcattatgga gggtgaaagc atttgctgat gctggagcag atgttctatt tattgatgcc 300
 cttgcttcag tagaagagat gaaagcattt tgtgcggttg caccataagt tccaaagatg 360
 gcaaacatgt tagaagggtg tggtaaaaact cccatattga gccctgctga a 411

<210> 9591
 <211> 159
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-043-Q1-K1-A2

<400> 9591

gcggcacaac tctctgcag gcttctctcc cctctgcgcc ctccccgcag caccctgct 60
cgcatcggt ctctccacag gactgctccg ngcgcgccga ccccatcgcc ggcaaggcgg 120
cgggtgctgct gcatattctc ccgtcccccc tccggagcc 159

<210> 9592

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-A4

<400> 9592

cgagcgcgtg ggtcaaacca taagctttat ctactcaaaa ccgcaaaaga acccgagggga 60
gaccttgagg gtgttgctcg ttgccctcgc tctcctggct ctgctgcga gcgccacctc 120
cacgcataca agcggcagct gcggctgcc gccaccgtcg tcggttcac taccgctcgtc 180
ggtgcatctg ccacctgcgg ttcacctgcc acctactgtg catctgccac cgtcgggtcca 240
cctgccgccg ccggtccacc tgccaccgac ggtccatgtg ccgacgccgg ttcactctgcc 300
gtcgacacca tgccactacc ctactcaacc gtcccggcct cagcctcatc cccagccaca 360
cccatgcccc tgccaac 377

<210> 9593

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-A5

<400> 9593

cgacccacgc gttcgtgcat ggctgtattc aatcagcatc atgttgatgg ccttgatttg 60
acggtgaatc cgcttttgta catgatgaag tgctatccgg gtgtgccgga gcagaagttg 120
agggcacatc tgggttcggt tgggttttcg ggaagccttg cctccaatc tatgtacact 180
ttatcaggtg gtcagaagag taggggtgca ttgcgaaaa taaccttcaa gaagccgcac 240
atcattctcc ttgacgagcc ttctaaccat cttgatctgg acgctgttga ggcgctcatc 300
caaggtttac tcatttttca gggaagggtg ctgatggtga gtcacgatga gcatcttacc 360

actggaagcg tggacgagct ttgggtggtg t

391

<210> 9594

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-A6

<400> 9594

ctcttgtttg tttttttttt tttttttttt ttttgttttt ttttttcttt ttctggagat 60

gtaacttcta atttctgggt ggccacatac atgatccaaa aaactttatt attgaattac 120

aactaataag caatctaaaa gagggcccca ccaatgatgt gtcgttggtg ggaggccgct 180

gggatctgtc aaagcaagtt ggacaaaggg caacaattgt tgtaacttgt aagaggggtg 240

cgggggttagc cgcaaactgc tgtagaaaag gcatcaactg tctctgtgtc aagaaagaaa 300

cacggtttgc tgcagctagc ttgctaaatg gcaataagat ttgctgctgc aaataagcag 360

ccggggttcag tgcggccaat tgggttaaag gaa 393

<210> 9595

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-A7

<400> 9595

gtgcgtcagc attcaaaaac acaccaagcg aagcgcacta tcatcgggct gacaccaatg 60

gctaccaaga tattagccct acttgcgctt cttgcccttt tagtgagcgc atcaaatgcg 120

ttcattattc cacagtgtc acttgctcct agtgccagta ttccacagtt cctcccacca 180

gttacttcaa tgggcttcga acatccagcc gtgcaagcct acaggctaca actagcgctt 240

gctgcgagcg cettacaaca accaattgcc caattgcaac aacaatcctt ggcacatcta 300

accctacaaa ccattgcaac gcaacaacaa caacgacagt ttctgacatc actgagccac 360

ctatccgtgg tgaaccctgt cacctacttg caacagcagc tgct 404

<210> 9596

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-A8

<400> 9596

ctccaaccag ggaattggcg acacaaattc aagatgaagc aatcaagtct ggcagatgtt 60
caagaatata ttctacttgc ttatatggag gtgctccaaa aggccctcag ctaacacagt 120
tggagcgtgg tgctgacata gttgtcgcaa ctcttgggag attaaatgac attttggaaa 180
tgaatagagt gagcctgcac caagtatcat atcttgtcct tgatgaagcc gaccgtatgc 240
ttgatatggg atttgagcca cacataacga aaattgtgaa acaaatacca ccgaaacggc 300
aaactcttat gtatactgcc acatggccaa cagaggctag aacaatagcg tctgatttac 360
tggctaaccg agttcaagtt aacattggaa aactgatca actagctgca aataagtcaa 420
ttacacagca tgtggaacgt atcccacat 449

<210> 9597

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-A9

<400> 9597

cggacgcgtc cgcccacgcg tccgcggtcg cgtgggaaat tttggggagc cagattgagc 60
tatactgact tttgacaagg cgtttagctat gaagcctgac tacaccgacg caaaaagctga 120
ccgtgaaact gctgctcgcc tagtcaagaa acgaggacag ctgcatacgt caggtttaag 180
tgctaacaaa agacgcttca cagttgggga gtacccaaag gagggaggtg cagaggggtga 240
agaaaaaggg aaagaaacag ccgagcaact ccaaaagatc acccatgaaa attagctaaa 300
ttaactgatt ttgatactgt gtaaaataga tattacaaaa aaatattaca ttagtggttg 360
tcacctgctt taattcgtaa aggggaacat aacacggcaa tacaattaac gata 414

<210> 9598

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-B11

<400> 9598

gaccaacaag caacatagaa agtgggaatcc agtagcaaca acagagcaac aatggcgacc 60
aagatatattt ccttccttat gtccttgct ctttctgcat gtgttgctaa cgcgacaatt 120
ttccctcaat gtcacaagc tcctatagct tcccttcttc ccccatacct tccatcaatg 180
atagcttcag tatgtgaaaa ccagctctt cagccctata ggctccaaca agcaatcgca 240
gcaagcaaca tacctttatc acccttggtg tttcaacaat cgccagccct atctttgggtg 300
cagtcattgg tacaaccat cagggcacag cagctgcagc aactcgtgct acctgtgatc 360
aaccaagtag ctctggcaaa cctttctccc tactctcagc aacaacaatt tcttcc 416

<210> 9599

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-B12

<400> 9599

gccgtcttcc tagacttgga tttctcattt cttgagatga atccgttcac catggtggat 60
ggggagccat atcctctgga catgagagga gaactagatg acacagcagc tttcaagaac 120
ttcaagaagt ggggaggtat agaatttctt ctaccttttg gaagagtact cagccctaca 180
gaaagtttca tccatgaact agatgagaag acaagtgcct ctctgaagtt cacggttttg 240
aacccgaaag gtcgcatctg gaccatggtc gctggtgggtg gtgctagtgt catttatgct 300
gatacagttg gagacttggg atatgcatca gagcttggaa actatgcaga gtatagtgg 360
gctcctaag aagaagaagt tctgaattat tct 393

<210> 9600

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-H7

<400> 9600

gcacttcaaa accagccaat tgtaaatgct gtcattgatg gcgatgacat catatacgga 60
gactacgtag acgtcagtgt tgctgttggc acttccaagg gccttgtggg gcctgttatc 120

cgagatgctg ataccatgaa ctttgctgac attgagaaag ggataaacia ccttgcaaag 180
aaggcaaatg agggggcgct ctcgattgat gacatggcag gaggaacatt cactatctcc 240
aatggtggtg tctatggaag cctcctcagc acacctatca tcaaccgccc acagtcgtca 300
attctgggga tgcattccat tgtgcaacgc cctgtggttg tgaatggtga cattctcgca 360
aggccaatga tgttccttgc gctgacatat gaccacagge tgatcgatgg cag 413

<210> 9601
<211> 293
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-042-Q1-K1-G10
<400> 9601

aaaaaattaa tcaccaaatt ataataaaac acaaataaag tcgtattatc tactaactca 60
acaccttaat catacaacca ctaactttca catcacatca ttactaaatc tctttaaaac 120
ataccacact ttttaattcct ctaaccaaca ttataacatc ctctactata caacacactc 180
atctaacata cctctaacta ttacacactc atacttcttt atatccataa tccttcctac 240
cacaataact cctaaacata attacactcc taaaaacatt agaacctcat ata 293

<210> 9602
<211> 434
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-042-Q1-K1-G4
<400> 9602

gtaatgctgg cttctaccgg tgaaggaaac caaccagggg ccttggaaca attcttcggg 60
gatggctatg ataagcagac cgaggatttt caaccattat gcaccatagg tcctggattt 120
tctgagcaac agcttgaaga acgttctgag agccttcgaa gtaaagtgat agaaaaacca 180
aaggcatact atagatttgg cgacacaatg aaccccgatg tgtggtttga gccatcagag 240
gtctggggagg tcaaagctgc cgatctgagc ataagcctg tacatcgtgc tgccaatggt 300
atagtcgac caaataaggt ctgtagttct tttttgcatt gccattctc cccatctcga 360
ttgtatactt ctggtatagt atgttggaag gctaagtctg aaatcgaacc aaggatatctc 420

tctaagattc cctc

434

<210> 9603

<211> 427

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-042-Q1-K1-G5

<400> 9603

caggcgctgc tgaaggcatg gctgaagaga ggaaggtata tgcttctgca gcggcatggg 60

tcaccacagc aaggctgtct caggctacct ctttgccctaa cgactcggat gagaacgagt 120

gcgtctggga cgcttcgctc catgcgagtg gcaatgttag cctcatagt agtattgaca 180

gcatgggtgt cgctactgct atgagcactg tcaacagctg cagcagcaca tatacaagcg 240

cgaccatagc tggatgaagca atgctcaatg ctgagaggaa ctgtgagagt gtcaagggta 300

ttcgaagtga cttactagaa agcgcactag ctagcatgag tccagcaagt gatagcactg 360

gtgatagtga tgacagcagc tggataccaca tcaactggacg tgccagtang cctcacaggg 420

ggaatga 427

<210> 9604

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-G6

<400> 9604

cacactcttc cgctagcattc attgaattta caaatgtata ccatcattca caggcatgat 60

ataccacatc attatcctct taggctacct ctcaacctca gcaatcgtat caaaactact 120

acatctctca cactctccta tatectactt tcaatcttaa tacctcataa taacattgac 180

attctgtgtg tcaaacactca tatgatcact cttacaagct ccaacaagca catctaaaat 240

cgcattctat aattatcaaa ccagttctca aagcatccat taactctatt actataaata 300

cctttcgacc atacttacta tcaaactcatt aagctaccac aactacaaca acttata 357

<210> 9605

<211> 429

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-042-Q1-K1-G7

 <400> 9605

 aacacaccta gcgaagcgca ctagcaacga cctaacaaca atggctacca agagattgtc 60
 cctctttgcg cttcttgccc tttttgtgag cgcaacaaat gcgttcatta ttccacaatg 120
 ctcaattgct cctagtgccca ttattccaca gttcctcctt ccagttactt caatgggctt 180
 cgaacaccca gctgtgcaag cctacaggct acaacaagcg cttgcggcga gcgtcttaca 240
 acaaccaatt gcccaattac aacaacaatc cttggcacat ctaaccatac aaaccatcgc 300
 aacgcaacag caacaacaat ttctaccagc actgagccaa ctagctgtgg tgaaccctgt 360
 cgntactttg gcacagcagt tgcttgcac caaccactt gcttttgcac acatagttgc 420
 ataccaaca 429

<210> 9606
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-042-Q1-K1-G9

 <400> 9606

 tcttcaaaag aatcaaaatc acctgattat tgtaaacggt tttaagggcc tgaagttcct 60
 tcctaagttg gaaaaggctc caaattctag ggttgctgac tctggtgtcc tgaggggaat 120
 gaatttagaa gacatcagga aagctgggga gcggcttatt cttcaggggtg gctgtaaaaa 180
 tttctttcag aagattgtaa aaacaaggga gatcctcaat ttggatatcc atattctttc 240
 ctactgctgg tgtgcagagc ttataagatc cgcttctca tcagccgggt gtctagatgg 300
 tctgaacata catgcgaacg agttcgctt tgaggaatct gtttcaaccg gtgagattga 360
 cagaaagatc cagtccccgc tagacaaggt tgagaagttc aagagcatca 410

<210> 9607
 <211> 373
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-042-Q1-K1-H1

<400> 9607

cgctgtcctt ggtcctggcg gcggcgctgt ccatgtccgt gtcgcgggcc aggctggggc 60
tgcccgatat gcccgtggcg ctggcgggcg tggcgggcgt caacgcacac gacctcgccg 120
cgcacctggc tggcgtcgac tgccgcgtgg gactggcgag gtacgatgcc cagctcgggc 180
tcgtggagtt cctcggtgcc gccgtgcacg cagccgggtg cgcgctcgcc gccgccggcc 240
tgccgctgct ggccncccc cactcccact cccagtccca gcagcggcac gcggcgacca 300
tgctgtcgtg cgcggcgctg ctgtgggtgc tgggctccgt gctcaactcc tgccaggtgt 360
acgagcgcgc cga 373

<210> 9608

<211> 423

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-042-Q1-K1-H11

<400> 9608

cgggggtcag tcttgaaggt cacnccgttg gatcatttgg gctcttgctc ccaccaggac 60
gacctctggt gggaggcatc aggcattggag tcgcgggtgt tgcggggagt tgggttttgc 120
ctcctataca gcataaatga attatattgc tttacctgtt ggtagaaaga accttgaaag 180
atagggaaacg tgtcgttttt tgtcaaagcg gttcctgtgc tgtataacat gttgcatgag 240
tattggcgca acttataaga caatgtcaaa tgggtttttg ggagtcccat tctggtttct 300
tgagtcttct tcattggtct attgtgtaac atgtacacag gtttgtggtt cgtcttctct 360
tgtctgttgt atttgccacc gttgtctgga agttgttgca tgcttatcta gaacagcagt 420
ata 423

<210> 9609

<211> 255

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-H4

<400> 9609

caaggttatt ggtaattttg gccttggtga accagaaggc ctccagtggg cctgtgggtt 60
tggtgccatt aatgtgaatc ctttgagttg cccacatctt atagtcgttt atgcttcatt 120
ggcatggcat atccatccaa attccaaaat aatgttctga tactatgttt tactgtgtat 180
gcccataaac cattgatgga taaaaaaaaa caaaagtaaa acgtatacag caacagaaaa 240
aaatgcctaa ccatac 255

<210> 9610

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-H5

<400> 9610

caaataatga ggttgagaga atattagctg acctgggaca tggcgcctgc ctggacagaa 60
gttcagccca aaacagcaaa gcgaagaagg gagacaaaaa tcacatcaga ggtatcacca 120
ccacggctgc tccatctgga tctttggatc cactgcttc caactgcata aaagaagcag 180
aagaaaatga gcttgaattt gccttggcag atttcttagg acggatccat agaaattgca 240
acaataatgg ggagttatgt acggagatga aagccctaata ccaaacaaag attgcagagc 300
tagataatcc tccgtgcaca tttgcttatg agcagcaaac ttcacggggt gacgaatatg 360
atactgctgg tggcaaa 377

<210> 9611

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-H6

<400> 9611

gacccacgcg tccgcggacg cgtgggtgga acctgtggag aagtgcctgc gcgacgccaa 60
gatggaggag agcagcgtgc acgacgtcgt gctcgtcggg ggctccaccc gcatcccaaa 120
ggtgcagcag ctgctgcagg acttcttcaa cggaaggaa ttgtgcaaga gcatcaaccc 180
cgacgaggct gtggcgtacg gcgcccgtgt ccaggctgcc atcctcagcg gcgagggcaa 240

cgaaaaggta caagatctgc tctgtctcga cgtcacgcc a ctgtctctcg gcctggagac 300
 tgcaagtggc gtcattgactg tgctgatccc gacgaacacc accatcccga ccaagaagga 360
 gcatgtcttc tccacgtact ccgacaacca gccgggctgc ctgatccagg tgtacgaggg 420
 tgagcgc 427

<210> 9612
 <211> 368
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-042-Q1-K1-G1
 <400> 9612

gggacccttg gggaaactttt ggttggtttt ggggggaagg agagagagag agaccgggag 60
 ggagatctag tagagaggct agtaggtggt cctcgaacga agatgttggc ggtgttcagc 120
 gggcacgtgg tggaggtgcc ggcggagctg gtggcgagcg gcaaccggac gccgtcgccc 180
 aagacgaaag cgtcgcagct ggtggggcgc tttctggccg cgtccgagcc ggtcgtgtcc 240
 gtgcagctcg gcgaccacgg ncacctcgcc tactcccaca ccaaccaggc gtcctccgg 300
 cccaggctgt tcgcggccaa tgacgaagtg ttctgcctgt tcgaaggggt gctggacaac 360
 ctgggtcg 368

<210> 9613
 <211> 317
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-042-Q1-K1-E4
 <400> 9613

ttgtgattta agtttgcca ggggccttga ttactacact ggtggcatat attaagccgg 60
 tgtgaaaggt gccacttaag gtggcttcct taccggttgt tggtcgtgcc aacaaccttg 120
 tgggtttgtt aagtgggaag caaatccctg ctgttggtgt gaggccttgga attgaaagag 180
 tctttgcaat catggagcag caggagaaag aaagaaatga gaagatccgg cctacaaaga 240
 cagaggtgct ggtgtcaatt cttggaaagg acctaccct aactgccgag ctcgtgagcg 300
 agctgtggaa tgcttgg 317

<210> 9614
 <211> 318
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-E5

<400> 9614

attggagcaa caatggcgac cgagatgttt tccctcctta tgctccttgc tctttctgca 60
 tgtgttgcta acgcgacaat tttccctcaa tgctcacaag ctccatagc tgcccttctt 120
 tccccatacc ttgcatcaat gatagcttca gtatgtgaaa acccagctct tcaaccctat 180
 aggctacaac aagcaatcgc agctagcaac atacctttat cacccttggt tcaacaatcg 240
 ccagccctat ctttggtgca gtcattggtg caaacatca gggcacatca gctgcaacga 300
 ctctgtctac ctgtgatc 318

<210> 9615
 <211> 422
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-042-Q1-K1-E6

<400> 9615

cccacgcgtc cgcaccaacg caaattgcac caagaaatcc atcgagaggc cgtcgacagg 60
 ggaattaatg gcgtcgctgt ctagcagcag ccaccgccgc ctcatcctcg cagccgccgt 120
 cctgtctctcc gtgtctcgcg ctgccagcgc cagcgccggg acctcctgcy tgccgggggtg 180
 ggccatcccg cacaaccgc tcccagctg ccgctggtac gtgaccagcc ggacctgcgg 240
 catcgggccg cgcctcccggt ggccggagct gaagaggaga tgctgccggg agctggcgga 300
 catcccgcg tactgccggt gcacggcgct gagcatcctc atggacggcg cgatcccgcc 360
 gggcccgac gcgcagctgg agggccgnc agaggacctg ccgggcttgc cgcgggaggt 420
 gc 422

<210> 9616
 <211> 429
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-E8

<400> 9616

gcccgcacca tccacatctc gcttgtcccc gacgaggaga tcggcggcgc ggatggggtc 60
gacaagtctg cccgatcgga ggagttccgc gccctcaaca tcgggtttat gctcgacgag 120
gggcaggcgt cgccgacgga cgtgttcaga gtcttttacg cggacaggct ggtgtggagg 180
ctcgtcgtga aggcgggcggg ggcgccaggg catgggtcga ggatgttgga cggcgccgcc 240
gttgacaatt tgatggattg cgtggagacc atcgtctcgt tcagggatgc gcagttcagg 300
atggtgaagt ccggggagaa gggctctggg gaggtggtct cagtcaaccc tgtgtacatg 360
aaggecgga-taccaagccc cacgggtttc gtgatgaaca tgcaaccttc agaagcggag 420
gtcggcttt 429

<210> 9617

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-E9

<400> 9617

ccttggttag acccacctgc ctcttaaaa gcccattat ggtccacca tgggtggcca 60
aataatttgg ctctctaate ctctggggcc tttctgcaag tctgtctaca acaaccattt 120
tcccgaatg ctcaagct cctatagctt ctcttcttcc ccatacctc tcaccagcgt 180
tgtcttcagt atgtgaaaac ccaattcttc aacctacag gatccaacag gcaatcacag 240
caggcatctt acctttatca cccttgttcc tccaacaatc atcagcccta ttacatcaat 300
tacctttggt gcatttattg gcacaaaaca tcagggcaca acaactacaa caactcgtgc 360
tagcaaacct tgctgcctac gctcagcaac agca 394

<210> 9618

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-F1

<400> 9618

cccacgcggtt cgaaaaaaaa aaaaaaatat aaaaaataaa aggaaataaa taaaataaag 60

aaagaatata aaacataaaa aaaaaaatgg ctgccatttt tcaggatcca agtttaacta 120

cccttgattg caaagtacta actcttcata atcgtaccct aaattaactt cactgcccgt 180

catttaacaa cttcgggact gagaaaacct tggcgtttcc aaaattaatc tccttgccagt 240

aaatccccct ttctccatat gg 262

<210> 9619

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-F2

<400> 9619

cccacgcgtc ccgccaagcc ttccgccaag ctttcgcca agccttccca acccttaagg 60

tttggtcccc aaaacccaaa ttttcttcca ttaattactt gagcccttga cccccaccga 120

accggtaca aagccaagaa cggggctgct gggcgcaagg ctggcgggcc caggaagaag 180

tcggtgtcgc ggtccctcaa agcccggctg cagttccccg ttggccggat cgggcgctac 240

ctcaagaagg gccggtacgc ccaacgcgtg ggcaccggcg cccccgtcta 290

<210> 9620

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-F3

<400> 9620

cccacgcggtt cgcagatagc gagcgacaga caggggaaca aaaaggaagg gccatgaaga 60

ccgggagccc atacgcaaga actgaagctt tgacgcgcaa ccccaaaact tgcgcgcgcc 120

cttttccctc cgcggcgctca tcctggaacg ctctccgatc caagatgtat aagctgggaa 180

gaggaaaccg cgacaagggtg cagcagttca tgaccattac cggcgccagt gagaagggtg 240

cccttcaggc actgaaagct agtgattggc acttgaagag agcttttgac ttcttctata 300

gccaacctca agtttctgtg gtcaatacgt cgcattctga agatattttc aacagatata 360

aagaacctga tgctgatatg ataatggtgg

390

<210> 9621

<211> 218

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-F4

<400> 9621

cggaagcac ccgtgagtac tttaggtacc cagagccttt gacacttggg gctgttcttc 60
gaatctaatt tcagctgttg catggttggt gcccttaagt tccggttttc cctttttaac 120
aagtggccgt aaggttcatt tttttgaatt taaaaaatt gctaaaggcc ggaattatta 180
tggtttttaa ctggaaaatt aaccttacct taaaaagg 218

<210> 9622

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-F5

<400> 9622

ggagacgcag aggtcccgcg gcttcggctt cgtcaccttc tccacggagg aggcgatgcg 60
gaacgccatc gagggcatga acggcaagga gctggacggc cgcaacatca ccgtcaacga 120
ggcccagtcc cgcggcggcc gtggaggcgg cggcgggtggg tacggtggtg gccgtggagg 180
cggcgggtac agcgggtggc ggcgccgtga tggcggcggc ggctacggcg gtggcggcgg 240
ctacggtggc ggcggcggct acggtggtgg tggcggcggc tacggcgggtg gcaaccgtgg 300
cggcgggtac ggcaactccg acgggaactg gaggaactga gcggtggtgc ccgcgcggcc 360
aagttatcct gttcgtgcc gtgatgttta ccct 394

<210> 9623

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-F7

<400> 9623

cccacgcgtc cgcccacgcg tccgaccacg cgtccgcaaa agaaaaaaga aaggttatgg 60
 gaaaaataaaa aaaaaaaaaa aaagaaaaaa aaaaaaatga aaaaataaaa ctataaaaca 120
 aaaaaagaaa aaattaaaaa taaaaaaaaat acgacagaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaccaa ataattaaaa aattactaca aaataaatta atccaaaaaa aattagataa 240
 caatttaaaa ttaaaaataa aagaaaataa aatgaaattt taaatttaaa atttctataa 300
 caaagaataa aaaaaaattt taattaatct aaagactaaa aaaccgggtt acctaataaa 360
 aaaaaacgta aaaataaaaa aaaatatggc ttaaaattaa atccggaata aaaaaatta 420
 ttcaaattaa atttaagaat 440

<210> 9624

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-F8

<400> 9624

gattactcgt cgaattctgt tcatgtattt cacattggaa agctgagaat agggcttcga 60
 aaaggatggt ccacaaaagc aagagagtcg tattccacta cgatgaagtt atgcggggagc 120
 cgtggtggtg gtaatgctgc agctagggca gttttctggc accctaggaa aggctcgtcc 180
 tacactctag ccttcgaaac agacagggac aggaatgctg cgattatgat tgctcgcaag 240
 ttcgcttcga attgcaatat cgctctcgct ggcccaggcg accaaggcac ctgatgaagt 300
 gatcacgcta tgttttgacg gcgacaacag tacataatta gggcgtggat tggctgattg 360
 ggtggcgtgc ttgtcttagt tttgtcgatt tgtgcttggt agggtagagg ttgtacacgg 420
 cgtgaggcat tgtttttggt t 441

<210> 9625

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-F9

<400> 9625

ctaaggatt tctcgcttac tacaacgact ccctaagtag aatgaaact tcaggccggg 60

tggtagcttt ggcggagttg ctaaaatatt aggggggcta aatccagatt atggaaattc 120
 tgcacaaaaa gtaatgttct attctgctag gggctctgac cctgaggaca atacactgtc 180
 aaatgctgat atcttgaaac ccaatctagt agcacccgga aattcgattt ggggtgcttg 240
 gagttcactt ggattggatt ctgctgaatt ttctggtgaa agtttcgcga tgctctctgg 300
 cacaagtatg gctgcacccc atgttgctgg cctggctgct ctaatcaagc agaagtttcc 360
 ttcttttagc ccagcagcta tagcttctgc attgtctaca accacaactc ttagtgacag 420
 g 421

<210> 9626
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-E12

<400> 9626

cggacgcttg gccggcggcg taggtagcgg cgggtgtgctg gggatctcaa tctcaagccg 60
 aggcgagctc ggctccggtc acccgctgat ccacgcaacc atgtcgagga ggaagaccag 120
 ggagcccaag gaggagaacg ttacccttgg acccactgtc cgtgaaggag agtttgtctt 180
 tgggtgttgc cacatctttg catccttcaa tgacaccttc attcatgtca ctgatttgtc 240
 tgggagggaa actttggttc ggatcactgg tggcatgaag gttaaggctg atcgtgatga 300
 gtcgtctcct tatgctgcta tgcttgcgc ccaagatgtt gcacagcgtt gcaaggagct 360
 cggatatcaca gcgctgcaca ttaagcttcg tgccactgga ggcaacaaga ccaagacccc 420
 t 421

<210> 9627
 <211> 350
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-C6

<400> 9627

ccccgcaat ttcttacatt caaccaactg gcagcattga actctcctgc ttatttagag 60
 cagcaacaac tactaccatt cagccagcta gctggtgtga gccctgctac cttcttgaca 120

caaccacagt tgttgccgtt ctaccagcac gctgcgcta acgctggcac cctcttacia 180
 ctgcaacaat tgctgccatt caaccaactt gctttgacia acctagcagt gttctaccaa 240
 caacccatca ttggtggtgc cctcttttag atttcttatg agttatagtt caataataaa 300
 gttttttgtc tgatgtttgt ggcttcccag aaataagaaa gtacatttct 350

<210> 9628
 <211> 263
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-042-Q1-K1-C7
 <400> 9628

cggacgcgtg ggctcgctct gctagcctac catggctgat caccaccggc gcgcgacggg 60
 aggtggcggt ggctacagcg acctagatcg ctggggcggg atgcacggcg aggcgcgaca 120
 gcagcagaag catggcgcca tgatgacggc gctcaaggtc gcgacggccg cgacctacag 180
 ctgctcgatg ctggtgctgt ccgggctgat cctgtgcggc accgagatcg cgcttacggt 240
 ggccacatct gtgctggtga tct 263

<210> 9629
 <211> 341
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-042-Q1-K1-C9
 <400> 9629

ggttcttctt attcctcaaa atccttgctc cctatttttag ttgcctctc atatatctga 60
 tctaccacat caacctgtca ctaatcattg cttacttata taagaacata agtagtattt 120
 gctattgtca agtgttgccc ttcttgatc aagtgtgtt ttcgatcat tattattatg 180
 cactgtcatc ttacgtgtat atctcgatg tgttattgtc aactttataa aagcacactc 240
 tgtttgcta aaaaaaaaaa aataaacia cctatatctg gtgcgtatat ttataciaac 300
 aatcaatgca ttaatatatt tatattaaat ttatatatat c 341

<210> 9630
 <211> 368
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-042-Q1-K1-D1

<400> 9630

nctggtttca ccaatcgcca gccctatctt tgggtgcagtc attggtacaa accatcaggg 60

cgcagcagct gcagcaactc gtgctacctg tgatcaacca agtagctctg gcaaaccctt 120

ctccctactc tcagcaacaa caattttctt cattcaacca actgtctaca ttgaaccgtg 180

ctgcttattt gcagcaacaa ctattaccat tcagccagct agctactgcc tactctcagc 240

aacaacaact tcttccattt aaccaattgg ccgcactgaa ccccgctgct tatttgcagc 300

agcaaatact actaccattt agccagctag ctgcagcaag ccgtgcttcc ttcttgacac 360

agcaacag 368

<210> 9631

<211> 164

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-D10

<400> 9631

tataaactac aaccttatat atttctgct tatattcatc ttctacttca tccaacatat 60

cataaatctt aactattccc acctcatatt tagtttccaa attaacatca agcacattat 120

tactctactt catcactatc atctttcaac atattataga taat 164

<210> 9632

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-D11

<400> 9632

cccacgcgtc cgcccacgcg tccggtgca ctgcgaagca atacatctcg tcgttcgact 60

aagatcgagg agcaaattggc ggccaccttg aagctcagga tcctcatcgt ggcgggcgcc 120

gtcgccgcgt ccctggctcg caccgacctc gcggcagagg gaccggcgcc cgctccgacg 180

tccgcccgcg cgtccatggc cgcgcgggcc gttgccgctg cgtccttcac cgcgcttgtc 240

ttcggctacc tcttctgaac gccgtgaaca ttcacgcgta caccgtgttg cccagccga 300
attgtttgcc tgctcagatt tttcttcttc tctgtctcgc tctcgtgttt tgggtgtgat 360
aggtttgtaa ttacgtgttc atttttttta ttgcgtgacc atggatctcg taatta 416

<210> 9633
<211> 433
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-042-Q1-K1-D3
<400> 9633

ccacctccga agaggtgctg tgtttggctg caggaccctt gaggagatcc cgggggggttc 60
ggttggtgct gaatatgttg ttgagtctac tgggtgttttc actgaccagg agaaggctgc 120
agctcacttg aagggtggtg ccaagaaggt tgtcatctct gtccttagca aggatgcccc 180
catgtttgtc gttggtgtca acgagaagga gtacaagtct gacattaaca ttgtctccaa 240
tgctagctgc acaaccaact gccttgctcc tcttgctaag gtcacatg acaagttcgg 300
tatcgttgag ggtctgatga ccactgtcca tgccatcact gctaccaga agactgttga 360
tgggccctca tctaaggact ggaggggtgg aagggtgctg agtttcaaca tcattcccag 420
cagcactgga gct 433

<210> 9634
<211> 138
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-042-Q1-K1-D4
<400> 9634

tgactctccc tgtaacgtca cattatgcgc ggcggtgtc gtggttactc tcacgtgac 60
cgttacactt gtcagtgtc taacgccac tccttttgc ttcttacctt actttctcga 120
cacgttcaac ggcttttc 138

<210> 9635
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-D5

<400> 9635

gactagtact agttcgtctg cgctgccatt acgacctact actgattcat gatattgggg 60
aaatctcctc tatccatcac tctctatcta tatatgtcat aatgcagtca gacgacacac 120
attatcatgt gtggfatgac caatactata tgcattggta taataaagtt ttgggtataa 180
tgaatctatc ggccgcttga tgtctatgat ggacaaatca aaacttctcc tgtcaggcat 240
gtaaatattt caaaatctct attcaggctc aaattcatag cacaaaaata gaacccaaca 300
agaccagata tacttgaagc caaacaagac tctgaaacat ggtgcaacc tgaaggtaa 360
actggtgatg ggcgcactga attgaatga 389

<210> 9636

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-D7

<400> 9636

attacgagca gttgatgatc ttttagagca cagcaattct gatcttgctg aggaattggg 60
caacttgaca caagcctaca cgtacttgcc gaaagtgttt gatcggtttg gaggtgcccc 120
aggatatatg ttccttcaag atcgcatggt cttcaattac tggaacctct tgaatgctga 180
taaggctaag ctctggataa ccaaccaggt gaaggaatct tgctcggatg tgcctctaca 240
tggttaacaac attgagtggg ttgtgaacca aggagatatg attaaaaagg cggtcatcaa 300
ttgtccatct caatatcaag ataattacag gagaagtga cgtgaaaata atctgattcg 360
ttgcaacagt gaaatatttt acgtacctca acggtacacc cgtgatttct cagatcttgt 420
aaaaagtatt gggagctta 439

<210> 9637

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-D8

<400> 9637

cgggaggttt tttgacctag tttatcatga aaatgcccggt gttctactcc atgatgagag 60
 catataccga tttgaatggt gctcaagtcc gacaagggtg tctattcagc tgatggaata 120
 tggtcacgaa aagccagaag ttacagcagt atcaattgat ccaaattttt cttcttatct 180
 ttttggcgag tatttatgta gtacgtcaga caagaaatta tctgaaggcg tctaccttgc 240
 aaggaataag cggaaatatt cagataatga tgaaccttca gattttttga aggcaatgga 300
 tggatatcaa gttgtgaatg gtctcgaatg caagatatcc tgcaagacct ctaagggtctc 360
 gtatgtcctt gacctgaag atttcttgta cgggcttcgg aaga 404

<210> 9638

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-042-Q1-K1-E1

<400> 9638

ccgacgcgtc cgcggcagtg cgtagagagg atcgtcgaac agaacagcat gaagatggtc 60
 atcgtttctcg tcgtgtgcct ggctctgtca gctgccagcg cctctgcaat gcagatgccc 120
 tgcccctgcg cggggctgca gggcttgtac ggcgctggcg ccggcctgac gacgatgatg 180
 ggcgccggcg ggctgtaccc ctacgcggag tacctgaggc agccgcagtg cagcccgtg 240
 gcggcgggcg cctactacgc cgggtgtggg cagccgagcg ccatgttcca gccgctccgg 300
 caacagtgct gccagcagca gatgaggatg atggacgtgc agtccgtcgc gcagcagctg 360
 cagatgatga tgcagcttga gcgtgccgct gccgncagca gcagcctgta cgagccagct 420
 ctgatgcagc agcagcag 438

<210> 9639

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-E10

<400> 9639

accgccgct catctcgca gccgcgctc tgctctccgt gtcgcgggt gccagcgcca 60

gcgccgggac ctctgcgtg ccgggggtggg ccatcccgca caacccgctc ccgagctgcc 120
gctggtacgt gaccagccgg acctgcggca tcgggccgcg cctcccgtgg ccggagctga 180
agaggagatg ctgccgggag ctggcggaca tcccggcgta ctgccggtgc acggcgctga 240
gcatcctcat ggacggcgcg atcccgccgg gcccgacgc gcagctggag ggccgcctag 300
aggacctgcc gggctgcccc cgtgaggtgc agaggggatt cc 342

<210> 9640

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-E11

<400> 9640

agttaaaaca tcattttggt ggtggggaaa tttgtaacct tttcaagtta ttggcctggt 60
tggaattttac cccgttgtgt gagaaatcta atactccgct tggatgtcga tattggagag 120
gatggaattg aattgggttg aataccaaat caggcatgat attgaaatga gatataattt 180
caattctatt gtttggatgt cactgaattg gagtttgaa ttatgcggtc taattctagg 240
caataccgag ggggtgaggc tttgtattgg aagagggggt ttctagttat agtctaattt 300
cagggaattg ggctctgat tccaaatctc aattccacat gcaacgaatc atcataattt 360
aggaaagctg attccaattc tcaattctgt gattcaatct ctacatccaa acg 413

<210> 9641

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-A8

<400> 9641

cccacgcgtc cgactcaggc aaactctgag gtgtctgctc ttcttggacg tatggcgggt 60
gctgtgggat accagccaac ccttgccact gatcttggag gactgcaaga gcgtattacg 120
acaacaaaga agggttctat tacatctgtg caggccatct acgtgcctgc cgatgacttg 180
acggatcctg ctctgctac tacctttgcc catcttgatg ctacaactgt gttgtcacga 240
cagatctctg agcttggat ttatcctgct gttgatccac tggattccac atcaagaatg 300

ctttctcccc acgtgctggg tgaggatcac tacaacactg ctcgtggtgt gcagaagggt 360
 cttcagaact acaaaaatct tcaggatatt attgctatct tgggtatgga tgagctcagt 420
 gaggatga 428

<210> 9642
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-A9

<400> 9642

taaccaccgt gggctttaac acctcaccac tccctgaacc tccgggctgg gatctgcctg 60
 ccacgctcaa gaagtctgcc aagccacctg gccgcccatt tggctctggc cctcctgggtg 120
 accgcccag gggcccaggc cgttttgacg gcgacaggcc aaggtttggt gacagggatg 180
 ggtaccgtgg tggctctcgt ggtgctcctg gtgactttgg tggcgataag agtggagctc 240
 ctgctgagtt ccagccatca ttcaggaggc ctggctttgg gcgtgggtggc ggcagcggct 300
 tcggcgcggg cccaacctct tcttccatgg agtgaagttg cccttggttt ggacatgggtg 360
 tttcccttcg catgt 375

<210> 9643
 <211> 189
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-B1

<400> 9643

ggaacaaaac aaaatatctt gggcatttaa cttggtcaaa acaagtagaa aagctggagc 60
 aacattgcc aactgactctt gggagactac agagcccggg tacagctcaa gaattcaaag 120
 cttagcattg cacaattatg ctggtttggt ggaagggttt gagttaatca tatctaaact 180
 gagttgggt 189

<210> 9644
 <211> 356
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-B10

<400> 9644

cgccagccct atctttggtg cattcattgg tacaaccat catggcacat catctgcggc 60
gactcgtgct acctctgac aaccaagtag ctctggcaaa cttttctccc tactctcagc 120
atcatcaatt ttttccattc aaccaactgt ctacactgaa ccctgctgct tatttgacgc 180
atcaactatt accatttagc cagctagcta ctgcctactc tcagcaaaa caacttcttc 240
catttaacca attggccgca ctgaaccccg ctgcttattt gcagcagcaa atactactac 300
catttagcca gctagctgca acaaaccgtg cttacttctt gacacagcaa cagttg 356

<210> 9645

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-B2

<400> 9645

cccacgcgtc cgggcaactt tggcatcgtg accaagctcg gccaggaaac tctgctgaag 60
gtgctcctcc gaatttacct tcactacaac ttgtatgac aggcagaaaa gcttagatca 120
aaggcacctc gttttgaagc acattccaac caacaattct gccgatactt gttctacttg 180
ggcaaaatta ggacaattca gttggagtac actgatgcta aagaaagcct tctgcaagct 240
gctcgtgaag caccaacaac tgcccgtggt tttcggatcc agtgcaaaa atgggctatc 300
atagtgaggc tgctgcttgg tgagattcca gagaggactt gtttcatgca gaaaggaatg 360
aagaaagctc tgacacctta t 381

<210> 9646

<211> 133

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-B3

<400> 9646

cagaaacaca cctagcgaag cgcactatca acgacctaac aacaatggct ttcaagacgg 60
taggccttct tgcgcttctt gccctttttg tgagtgccac aaatgcgttc attattccac 120

aatgcttact tgc

133

<210> 9647
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-B6

<400> 9647

gcaagatcca gaagaagcgc cacggcgcg cgaggaggcg cgggctgcag ggcggtagcc 60
cggttcgagaa gtccaagggg cagcacattc tgcggaaccc ggcgctggtg gactccatcg 120
tctccaaggc cgggtctcaag cccaccgaca ccgtcctgga gatcggggccg gtcacaggaa 180
acctcaccaa ggcctcctc gagggctggtg tcaaggccgt cgtcgccgtc gagctcgacc 240
cgcgatatggt gctcgagctc aaccggcagt tccaggggca cctgctctcc tcgcgcctca 300
aggttatcca aggagatgtc ctcaaagtgt atctcgcata ctttgatatt tgtgtggcag 360
acatcccgta ccagatctct tctcccctta ctctcaagct tctgtcacac cgtacaattt 420
ttacgtgtgc tgt 433

<210> 9648
<211> 381
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-042-Q1-K1-B7

<400> 9648

attccctgaa gcacagcctt cccacacaaa gaacttcgct gacgagggtg cctgcctgaa 60
tcgcttcttc ggtggcctca agtccggtgg caatgcttat gtgattggtg actctgcgaa 120
gcccgggcag aagtggcacg tctactacgc cgctgagcac cctgaggagc ctggtgttac 180
tctagagatg tgcattgactg ggctggacaa gaagaaagct tctgtcttct tcaagaccac 240
tgctgatggt tactcgctgt gcgccaagga gatgaccaag ctctctggtg tctcggacat 300
catccagag atggagatct gtgacttcga cttcgagccc ttgggctact ccatgaatgc 360
tgntcatggc cctgctttgt c 381

<210> 9649
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-B8

<400> 9649

cccacgcgtc cgcggacgcg tgggattgag accaacaagc aacatagaaa gtggaatgca 60
gtagcaacaa cagagcaaca atggcgacca agatattttc ctccttatg ctccctgctc 120
tttctgcatg tgttgctaac gcgacaattt tccttcaatg ctcaacaagct cctatagctt 180
ccctttcttc ccctacattt ccatcaatga tagcttcagt atgtgaaaac ccagctcttc 240
agccctatag gctccaacaa gcaatcgcag caagcaacat acctttatca cccttggtgt 300
ttcaacaatc gccagcccta tctttggtgc agtcattggt acaaaccatc agggcacagc 360
agctgcagca actcgtgcta 380

<210> 9650
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-B9

<400> 9650

tttccgggtt gacccaagcc ttcggttccg gccgacggcg ccgctgcgcc attaacgcag 60
gaggcttcca agattgttaa gggccgtaat gcccggcagg gccgttttcc tcttcaagg 120
ccgcttctcc gccaggaagg cagttatcgt gcgctgttc gatgagggca ccgcgaccg 180
tcctatggc cactgcctcg tcgcaagcct cgccaagtac ccaaagaagg tgatccgcat 240
ggactccgtc aagaagactg cgaagaagtc gcgctcaag tgcttcatca agctcgtcaa 300
cttcaactcac ctcatgccc cccgtacac cctcgacgtc gatttcaagg atgtcgccac 360
cgggtgggcc gacgcactct ctaccacga caagaaggtc gccgcctgca agacggccaa 420
agcgcgcctt gaggagaggt tc 442

<210> 9651
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-C11

<400> 9651

cgcctaccta caacagcaac aacttctttc atctagcccg ctcgctatgg gcaatgcgcc 60
tacatacctg caacaacagt tgttgcaaca acagttgctg caacaaattg taccagctct 120
tactcagcta gctgtggcaa accctgctgc ctacttgcaa caactacttc cattcaacca 180
actgactgtg tcgaactctg ctgctgacct acaacagcga caacagttac ttaatccact 240
agcgggtggct aacccattgg tcgctgcctt cctacagcag caacaattgc tgccatacaa 300
ccagttctct ttgatgaacc ctgccttgct gtggcagcaa cccatcgctg gtggtgccat 360
cttttagatt acatatgaga tgtactgat aatggtgccc tcatagcggc atgtgt 416

<210> 9652

<211> 424

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-042-Q1-K1-C12

<400> 9652

ccaaaggcca tcaactgccta gcaatgcagc ttaccgcaga atacttttcg ttagatggca 60
ctaaacgtga attccctaaa agagacaaca ttcagttggg tggttattat cattatgcga 120
tggttctctga caatgtgctt gcaagtgctg tggttgtcaa ctctacaatt gctgcatcaa 180
aggatcctgg aaggatatta ttacatattg taactgacgc gttgaattat cctgcaatga 240
tgatgtgggt tctgacaaac ccaccaactc catcagtaat ccaaatccag agcctagatg 300
atttgaaatg gttgcctggt gatttcagtt ccagattcaa gctgaagggg gttcgggatc 360
cgagatacac ttctgcactc aaccacttgc gtttntatctt gccagaagtg tttccatctt 420
tgag 424

<210> 9653

<211> 206

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-C2

<400> 9653
attcttatat tttttataact ttattttttt ttttagtttg tttttattat tttttttttt 60
tttttttttt tttttttttt tttttttttt tttttttttt tttttataat tttttttttt 120
tttttttttt tttttttttt tttttaattt tttttattat ttttttattt ttttttttta 180
aaaaaaaaa aattttttttt tttttt 206

<210> 9654
<211> 242
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-C3

<400> 9654
tggccggacc cttggccatt aatggagaag aaggttccca actgcaaagg aaggatgctt 60
ccttaccaag ggaaaaattg gttgtatcca aggatggcat tactgaccac caaattaatg 120
accagaaaag aaccccaaat tctgttgccc gaactaccgt gagccctcca aggtcaaagg 180
atgctgacat ggatgatgtg aaaccacaaa gcttaagctc tcggagctac ctgaaaagtg 240
ca 242

<210> 9655
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-G9

<400> 9655
cccacgcgtc cgaaagatgc tctggcttaa tctgacaaga ttacgctgga ggcagcagag 60
cttttgagag aagattattt ggcacaaaat gcattcacc catatgataa gttctgcccc 120
ttctacaaat ccgtttggat gatgcgcaac attattcact tcaacacatt ggcaaatcaa 180
gctgtggagc gggcagctgg tactgacggc cataagataa catacagtgt cataaagcat 240
cggttggggg atctaattta tcccctaata tcccacaaaat tccaagattc cttcaaaagc 300
caaaaagctt ttgtcggcaa gtttaagaaa ctttattacg accttaccac tgggttccgc 360
aacct 365

<210> 9656
<211> 421
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-041-Q1-K1-H10

<400> 9656

cgagcgctg ggcggacgct tgggtgctac tgctgcagct aacagcctca gtcnagagtt 60
tgatcaaaa cttaaagaac acatgcagta ttgtgtggat caccctgaag aggttagcaa 120
gctggccaaa gtgaaggcgc aggtttcaga agtcaagggt gttatgatgg aaaacattga 180
aaaggttctg gatcgtggag agaagattga gctgcttgct gacaagaccg agaatcttcg 240
ctcacaggca caagatttca gacagcaggg aacaaatgctc aggagaaaga tgtgggttaca 300
gaacatgaaa atcaagctca tcgtcctggg aataatcatc gcactcattc tgatcattat 360
cctctctgtc tgtcatggtt tcaaagtcca ttaagcacag accagaatac tgatacattc 420
a 421

<210> 9657
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-H11

<400> 9657

gggtgctgat ttgaattcta tgagagttga gaccaacttc ctgagctatg ctatagggga 60
tgacagaaa tatccatacc ttgcatcaat gggcatttat gtcttcaaga aagatgcact 120
tttagacctt ctcaagtcaa aatatactca attacatgac tttggatctg aaatcctccc 180
aagagctgta ctagatcata gtgtgcaggc atgcattttt acgggctatt gggaggatgt 240
tggaacaatc aaatcattct ttgatgaaa cttggccctc actgagcagc cttccaagtt 300
tgatttttac gatccaaaaa cacctttctt cactgcaccc cgatgcttgc cttcgacgca 360
attggacaag tgcaagatga aatatgcatt tatctcagat ggttgcttac tgagagaatg 420
caacatcgag cattctgtga ttggagtc 448

<210> 9658
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-H12

<400> 9658

gcaagttctt gttgaaattg gtgacaagga tccatcattt attggatctt gggaggggat 60
eggagccatt gagttaagct ttgtcctcga caaactgctg ggcgtgagtt gtaaggttat 120
caatgtgagg tctggcgatg agcttcctga aaagtgcaga gaacttgcca ggcattttga 180
aaccagga actcctgtga tgattggtg tggagtcttg gcttacaccc ttttgggagt 240
tgattataac gaagccagtg gagattgtgc atttcttata cttgatccgc actacactgg 300
tactgacgat ctcaaaaaga ttgtaaatgg cggatgggtgc ggatggaaga agtctgtcga 360
cagcaaaggc cgaagcttct ttttgaaaga caagttctac aaccttctac taccctaa 418

<210> 9659
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-H4

<400> 9659

ggaattcccg cctcaacctt cccgtcacgc gtccgcttga tttattcatt tgagcattca 60
acatagggac acaattatct gcaactgcaca acaaccaaca accctgaaag ccaagattga 120
aaggaaaaaa aaatcttaat ttctttgcta acgaaaatgg ttgggttcacg gcaatgcggc 180
cttcagggtt ttggcgaact cttctagctt cttcaatcct tcttctggag aagcagcttc 240
ctccaacgtc ttcactactg cgctaccgat aatcacacca tctgcgcccc atcctgcaat 300
ctgccggaca tgctctggag tcgacacacc aaagccaaca gccacgggtt tttctgtcac 360
cttcttgata tctgaagaa gagattgcac cttgccgctt acatttgcac gtgtaccagt 420
aacttcaaca gtgcttataa gataaa 446

<210> 9660
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-H5

<400> 9660

ctatactata ctctaggaag caaggacacc accgccatgg cagccaagat gctggcagtg 60
ttcgctctcc tagctctttg tgcaagcgcc actagtgcga cccatattcc agggcacttg 120
ccaccagtca tgccattggg taccatgaac ccatgcatgc agtactgcat gatgcaacag 180
gggcttgcca gcttgatggc gtgtccgtcc ctgatgctgc agcaactgtt ggccttaccg 240
cttcagacga tgccagtgat gatgccacag atgatgacgc ctaacatgat gtcaccattg 300
atgatgccga gcatgatgtc accaatggtc ttgccgagca tgatgtcgca aatgatgatg 360
ccacaatgtc actgcgacgc cgtctcgagc attatgctgc aacagcagtt accattcatg 420
ttcaaccc 428

<210> 9661

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-H7

<400> 9661

gctccagctc ctcgcgcacc agttgagaag gctgatccag ctcctagtgc accggttgag 60
aaaggtgctc cagctcttcg cgcaccagtt gagaaggctg atccagctcc tcgtgcacca 120
gttgagaagg aagtaactag gaagacttat gcatcagttg ttaaaatccc gagggaggac 180
acacagccta cccagctgc cagaccctcc aagcccaacc taaatataaa gatggttcaa 240
aatacggaga aaaatgtgtc ctcaccatcg aaacctgctc atgctactgt taatgcccta 300
ccgggcgata aggggtgttc taaaaacaaa tcacctgatg agccagggtg ctcaattttt 360
gttaagaatt taccttttga agcaactgtt gaaatggctg aacaagagt 409

<210> 9662

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-H8

<400> 9662

cgacccaggc gtgcggttgg cttctcctcc cctccgggtt cgggttcggg ttcgtgaggt 60
 tctccgggggt tcgggttcgt gggtagcggt atcgagatgg cggcgtcgga tgttgagtac 120
 cgctgcttcg tcggcggcct cgctggggcc acggacgacc actccctcca caacgccttc 180
 agcacctacg gcgaggtcct cgagtccaag atcatcctcg atcgggagac gcagaggtcc 240
 cgcggttcg gcttcgtcac cttctccacg gaggaggcga tgcggaacgc catcgagggc 300
 atgaacggca aggagctgga cggccgaac atcacgtca acgaggccca gtcccgcggc 360
 ggccgtggaa gcggcggcgg tgggtacggt ggt 393

<210> 9663
 <211> 229
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-A1

<400> 9663

aaagcagcga cccgagagat ggaccccagg gtggtccggc ttgaaaaccc cccggtgggc 60
 gggcttgatt aactggttga cttccccaa cggcaacaag gcggccggcg ggccaaccgc 120
 aactacgtcc gcgacgcgcg ccgcatggcg gccaccccg cgcacgtcaa ggagctcggc 180
 ggagcgtacg cgttcgtggt ggacatgccc gggctgagca cgggcgaca 229

<210> 9664
 <211> 412
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-042-Q1-K1-A10

<400> 9664

gccaaagcttg ccgagcaggc ggagcgggtac gacgatatgg tggaattcat gaagaatctt 60
 gctaggatgg acgcggtatg gactgctgaa gaaaggcatt tgttctcagt tggtttcaag 120
 aacactattg gagcaaagag agcatcatgg agaattcatt gctcacatga gcaaaaggctc 180
 gcagctgatc gtcagactgg tgtgatgata gatgcctata tgaagaaagt tgaagaggaa 240
 ctaaggaagg ttcgcaatga agtattgtca gtcattgcta ttcactgcct taccttgtcc 300

agtacggntg aaaatatcgg attcttttat aagatgaaag gtgactacta ccgttacttg 360
gctgaattta tcaactggaac tganaagaaa gctgcctctg atcagtcact ta 412

<210> 9665
<211> 258
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-A12

<400> 9665

gttccttata cgtagagtgt ggcgaattcg agtcceaact tcagtgggtc cacctgcgtg 60
gctctaaggg tgtatgagaa gagttatgag cgctgcctag cttgcactgc tcagggttctt 120
cgcttcacat taaagtaata tatttgaact gtagttgtaa tctatagaga taaaagcagt 180
gtaaaaatag tagaaatcgt tatggattaa agacagtcga cccagctctt gctagttgaa 240
aagaaccag ctcttgcc 258

<210> 9666
<211> 410
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-042-Q1-K1-A2

<400> 9666

gagganacca acaggaagaa ttccagctct caaaattgat ttgctctgta agtgaagttg 60
gacggattca tcatatgtgc cccctgagtg gtagttcagt tagcatctta gaaatgtata 120
tgatcaacaa aaccaaacca atccaaacca aatcatcttc ccaaagagtt gaggaactgc 180
aaatgatcaa ctctgagacc ttaaaggcca gaattatcaa ctctgagact ttgaaagcaa 240
gaatggggca actggttggtt accacggaca tggatgttaa agtagaacc agttgacttt 300
gcaatgtaca catttcttgt atcggctctt catttacgtc tgtattatcg cttttatgat 360
tggatgatga tgttattctt gagagatgtt cggtgtgttt gggggcgctt 410

<210> 9667
<211> 381
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-042-Q1-K1-A3

<400> 9667

gcgacataga aagcacaatt gtgggtccctc aatggcaggc caaataattt ggtttctga 60
tgctcctggg tctttctgca agtgctgcta ccgcgaccat tttcccgcga tgctcacaag 120
ctcctatagc ttcccttctt ccccatatcc tctcatcagc ggtgtcttca gtatgtgaaa 180
accaattct tcaaccctac aggatccaac aggcaatcgc agcaggcatc ttacctttat 240
cacccttggt cctccaacaa ccgtcatccc tattacagca gttacctttg gtgcatttgt 300
tggcacanaa catcagggca caacaactac aacaacttgt gctagcaaac cttgctgcct 360
actctcagca acagcagttt c 381

<210> 9668
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-G8

<400> 9668

cccacgcgtc cgcgcgaggc aggtgcatca gcacttcgct ctgcgctctg gcgttactgc 60
tcgcaatacc agcagcagca gcaccgtgcc aacgaggctt tgctcccgcg cgtgcgcgcg 120
cgcgctcgtg atggcagcag ccccgccgcg gtcgtcgtcc acgtccgggt cgccggccgc 180
cggcgggccg cggtagagga tcgtcgacac gacgtgacg aacgtgttcg tgggcgagat 240
ggcgtgggag acgtctcgcg aggggctcca gcagcacttc gagcggtagc gcgacatcct 300
ggaggccgac ctcatcacgg accgcttcac cggccgctgc aagggtacg gattcgagac 360
gttcccggag ccggacgcgg tgcagcacgc ggtgcaagac ctgaaccgca cgatc 415

<210> 9669
<211> 288
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-F2

<400> 9669

cggacgcgtg ggaaaaaaaa aaaaaaataa aataaaaaaa aaaaaaaaaa aaaaaaaaga 60
 aaagtaaaaa caaaaaatTT aaaaaaaaaa aataaaaaata aaaaaaaaat aaaataaaat 120
 aaataaaata ttaaaaaaaaa ttaataaaaa ttaactaaaa ataaatttaa.aaaaataaaa 180
 attgattaaa atattaaaat atccaaactt taatcaaatt gcataataat ccaattttca 240
 aaaactggat taatatttga aaaagccttt aaaatatcaa ttttaaaa 288

<210> 9670
 <211> 407
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-041-Q1-K1-F3

<400> 9670
 cgatcgacac catgagggtg ttgctcgttg cctcgcctct cctggctctc gctgcgagcg 60
 ccacctncac gcatacaagc ggcgggtgcg gctgccagcc accgccgccg gttcatctac 120
 cgccgccggt gcattctgcca cctccggttc acctgccacc tccggtgcat ctcccaccgc 180
 cgggtccacct gccgccgccg gtccacctgc caccgccggt ccatgtgccg ccgccggttc 240
 atctgccgcc gccaccatgc cactacccta ctcaaccgcc ccggcctcag cctcatcccc 300
 agccacaccc atgcccgtgc caacagccgc atccaagccc gtgccagctg caaggaacct 360
 gcggcggttg cagcaacccg atcctgggcc agtgcgctga gtttctg 407

<210> 9671
 <211> 400
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-041-Q1-K1-F4

<400> 9671
 cccacgcgtc cgccggacgc tgggacgcgc cgttggatag gcttcaacaa gcaatcggga 60
 caggcaacat acctttatcg ccttgttgtt ttcaacaatc gccagcccta tctttggtgc 120
 agtcattggt acaaaccatc agggcacaac agctgcagca actcgtgcta cctctgatca 180
 .accaagtagc tctggcaaac ctttctccct actctcagca acaacaattt cttccattca 240
 accaactgtc tacactgaac cctgctgctt atttgcagca acaactatta ccatttagcc 300

agctagctac tgcctactct caacaacaac aacttcttcc atttaaccaa ttggccgcac 360
 tgaaccccgcc tgcttatttg cagcagcaaa tactactacc 400

<210> 9672
 <211> 396
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-F5

<400> 9672

attgaagatc tggaggcctt cctactcgag aaaaagatta tcactcgagg tggcacaagg 60
 tttggagtgg atgcaagggc tgtcagagtt agtatggttg acacagacca agccttcaat 120

gtgttcacatc atcgtctggc cacaatgaag tgaaatttca gtgcaaatta ataaagcact 180

ttgtggctac tacaaggatg accgcgttct agatggaaca atcgatgctt tggaaagctt 240

aataatgttt tatgttgttg aataattccg tgtgttttcg ggtatgttgt gtaatactca 300

atgtcaaadc ctatgcttaa tcgatgttgt ggtccatcct gttatcagca tggccaatta 360

tatatggatg accgtcactg ctcagtcttt actcct 396

<210> 9673
 <211> 61
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-F6

<400> 9673

cggacgcgtg ggaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaggaaggg 60

g

<210> 9674
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-F7

<400> 9674

aacactggtg aaaaagacaa catgatgcag agtttcttcc tggcagagac gctgaagggc 60

ctgtacctac ttttctcccc tccatcagtc atatccttcg acgagtgggt tttcaatact 120
gaagctcacc cattgagaat tgttccagta aatgataaca aaggcattgg aacaccggtc 180
cgacaattcg ggagaaaaca gggaaagcct gagtaacctt ggatatagag cagtggattt 240
ttgaatccgc cgtctgattc tgacctcctt gttgatgtgt tctgacacga gggaactttc 300
tgcctgaagc agtaagggat agaagtcacg gcgatagatt gtttagagca aaaatcatag 360
gtagaggatg atgttatatg cggggcagtg acctccgtga ggtcaagagc cccatagaag 420
cttttatctt 430

<210> 9675
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-F8

<400> 9675

ccagatctat caccttgctt gccctgcttc accaatcttc tacaagcaca atgctgttga 60
gaccatcaag acaaattgta ttggtaccct gaacatgctg ggacttgcaa agagagttgg 120
agctaggatt ttgttgacat caacatctga agtttatggg gatccacttg agcatcctca 180
aaccgaggcc tactggggca atgttaaccc aattggagtc aggagttggt atgatgaggg 240
taagcgtgta gcagagacgc tgatgttcga ctatcacagg cagcatggca ttgaaatccg 300
aattgccagg attttcaaca cctatggggc aaggatgaac attgacgatg gccgtgttgt 360
tagcaacttc attgctcaag ctgtgcgtgg cgaaccctt actgtccaga agccaggaac 420
acag 424

<210> 9676
<211> 451
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-041-Q1-K1-F9

<400> 9676

attacaacaa caatccttgg cacatctaac catacaaacc atcgcaacgc agcagcagca 60

agcactgagc cacctagccg tggngaaccc tatcgctac ttgcaacaac agctgcttgc 120
 atccaaccca cttgctttgg caaacgtagc tgcataccaa caacaacaac agttgcaaca 180
 gtttctacca gcgctcagtc aactagccat ggtgaaccct atcgcttacc tacaacagca 240
 acaacttctt tcatctagcc cgctcgctat gggcaatgca cctacatacc tgcaacaaca 300
 gttgttgcaa caacagttgc ttgaacaaat tggaccaact cttactcaac tagcttgggc 360
 aaaccctgct gnctacttgc acaactactt tcattcacnc aactgactgt gtcgaactct 420
 gctgcgtacc tacaacagcg acaacagtta c 451

<210> 9677
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-G11

<400> 9677

gcgacataga aagtggaaac caatagcttc aacagagcaa caatggctac cgagatgggt 60
 tccctactta tgctccttgc tctttctgca tgtgttgcta acacgacaat tatcccttaa 120
 tgctcacaag cttctatacc tacccttatt ccaccatacc ttccatcaat gatagcttca 180
 gtatgtgaaa acccagctct tcagccctat atgctccaac atgcaatcat agcaggcaac 240
 atacccttat cacccttgat gtcacaacaa tcgccagccc tatctatggt gcaactcatag 300
 ctacaaacca tcagggcaca gcatctgcag caactcatgc tacctgtgat caaccaagta 360
 gctgtggcaa acctattatg ctactctgag caacaacaaa ttcttcatt taaacaac 418

<210> 9678
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-G2

<400> 9678

gatcaacgtc gtgttccgca ggacggcgtg caggtacggg ggcaagaaca tcgccttgca 60
 cgggaacgag ggctccacta gttcttggt ctccctgctg gtggagttcg aggacggcga 120
 cgcgacatc ggatccatgc agctcaaaca ggccaactcg gcgcagtggc gagacatgca 180

gcacgtctgg gggggccacgt ggagcctcac cccgggcccgc ctcgtcgggc ctttctccgt 240
 gcggctgacg accctgtcgg gcaagcagac gctcacggcc caggacgtca tccccaaagaa 300
 ctgggcccccc aaagccacct acacctcccg cctcaacttc gcgtagaggc cttctgcctt 360
 ggccccccgc gtatttatcg ttctgtgcag tttgatgtcg cgtgaagggg ataagct 417

<210> 9679
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-G4

<400> 9679

cggacgcgtg ggttcagaaa cacaccaagc gaagcacatt agcaacaacc taacaacagt 60
 gggtagcaag atattatccc tccttgcgct tcttgcgctt tttgcgagcg caacaaatgc 120
 gttcattatt ccacaatgct cacttgctcc aagttccatt attacacagt tcctcccacc 180
 agttacttca atgggcttcg aacaccacgc tgtgcaagcc tataggctac aacaagcaat 240
 tgcggcgagc gtcttacaac aaccaatttc ccagttgcaa caacaatcct tggcacatct 300
 aacaatacaa accatcgcaa cgcaacagca acaacaattc ctaccagcac tgagccacct 360
 agccatgggtg aaccctgccg cctacttgca acagcagttg cttgcatcaa accc 414

<210> 9680
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-G5

<400> 9680

cgcggttgca ggcctccagg ggcacggcga tgggacagca cgactctctt ctcggaggga 60
 acccaacaaa aaccctcgct cgcctcactt gttcgctcac ctcggtgcgg cgcgtcgttc 120
 ggacacggag atacagcggc gattccggcg atggagtacg tgaaccccct caccggcttc 180
 cgcgtcgacg gccgccgccc caacgagatg cggcaactca agggcgaggt cggcgtcggt 240
 gcgcgcgcag acgggtcggc gctgttcgag atgggcaaca ccagagtcac cgccgccgtc 300
 tacggccccgc gagaggttca gaacaaaggt cagcaagtaa acagcaagga ggctttgggt 360

cgttgtgagt acaggatggc agagtttagt acaggagatc ggaggagaaa accgaagggt 420
gacaggcgat caa 433

<210> 9681
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-G6

<400> 9681

cgagcgcgcg tctccggtcc cgtccgtaat aacactgatc cgatccacgc cgggcgggga 60
tggagctcat caagtccagg gcgaccgtgt gcgcgctcct cctggcgctg ctctgctct 120
cacactacga cggcgggacg acgacgacga tgggtggcgga ggcccgggtg tgcattgggca 180
agagccagca ccactcgttc ccttgcattc ccgaccgcct ctgcagcaac gattgctga 240
aggaggacgg cgggtggacc gccggctact gccacctccg ctactgcagg tgccagaagg 300
cgtgctaagc aaagctcttc aaacaccctt ggcttgccag aactgaactc tagtagtact 360
aagtaacacc cttggctagc tgtgcacaac ctacgtaccg tgcattg 406

<210> 9682
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-G7

<400> 9682

cccacgcgtc cgtccacgcg tccgaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaga 60
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
ataaaaaaaaa aaaaaaattt aaaatatatt tttttttttt ggtttaaaaa aaaaaataat 180
ttgggcacgt tttaatgttt taaattttac tttcatttta tttcaattgt atatttttta 240
tttagtgtaa cttaatttaa ttttattggc agtattttta aaactccggt actggaaaaa 300
cctttggttt acctaattha ttctcttttag agaaaaatccc tttt 344

<210> 9683
<211> 417
<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-041-Q1-K1-F12

<400> 9683

cccacgcgtc cgcccacgcg tccgcccacg cgtccgccca cgcgtccgcg ggcgcggggg 60
gaccaacaag caacatagaa agtggaatcc agtagcaaca atagagcaac aatggcgacc 120
aagatatttt ccctccttat gctccttget ctttctgcat gtgttgctaa cgcgacaatt 180
ttccctcaat gtcacaagc tcctatagct tccattcttc cccatacct tgcataatg 240
atagcttcag tatgtgaaaa ccagctctt caacctata agtccaaca agcaatcgca 300
gcacgcaaca tacctttatc accctcgatt caacaatcgt cagccctatc tttggtgcag 360
tcattggtac anaccatcag ggcacagcag ctgcagcaac tcgtgctacc tgtgatc 417

<210> 9684

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-D8

<400> 9684

ggcttctcct cccctcccg ttcgggttcg ggctcgtgag gttctccggg gttcgggtgc 60
gtgggtgagc ggatcgagat ggcggcgctg gatgttgagt accgctgctt cgtcggcggc 120
ctcgcttggg ccacggacga ccaactccct cacaacgcct tcagcaccta cggcgaggtc 180
ctcgagtcca agatcctcct cgatcgggag acgcagaggt cccgcggctt cggttcgctc 240
accttctcca cggaggaggc gatgcggaac gccatcgagg gcatgaacgg caaggagctg 300
gacggccgca acatcaccgt caacgaggcc cagtcccgcg gcggccgtgg aggcggcggc 360
gggtgggtacg gtggtggccg tggaagcggc ggctacggcg gt 402

<210> 9685

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-D9

<400> 9685

cctggctctc gctgcgagcg ccacctccac gcatacaagc ggcagctgcg gctgccagcc 60
accgccgccc gttcatctac cgccgccggt gcattctgcca cctccgggtc acctgccacc 120
tctgtgcat ctcccaccgc cgggtccacct gccgccgccc gtccacctgc caccgccggt 180
ccatgtgccg ccgccgggtc atctgccgcc gccaccatgc cactacccta ctcaaccgcc 240
ccggcctcag cctcatcccc agccacaccc atgcccgtgc caacagccgc atccaagccc 300
gtgccagctg cagggaaact gggcggttg cagcaccocg atcctgggcc agtgcgtcga 360
gttcctgagg catcagtga gcccg 386

<210> 9686

<211> 416

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-041-Q1-K1-E1

<400> 9686

accatcctta gtgaatctat atcttcaaag aatcgtagca caacaactac cacaaccagt 60
gggttcaaca attaaaccag tagttgcagc gaaccttgat gcttaccttc agcaacaaca 120
atttcttcca ttcaatcaac tagctggngt gaacctgct gcttacttgc aggcaacaaca 180
gctactacca ttcaaccaac ttgtcaggag cctgtgtgcc ttcttactgc agcaacagtt 240
gttgccattc catctacaag ttgtggcaaa cattgtgtgt ttcttgcaac aacaacaatt 300
gctgccattt taccacaggt ttgtgggaaa cattaacgcc ttcttgcaac agcaacagtt 360
gctgccattc taccacaag atgtggcaaa caatgtcgcc ttcttacaac aacaac 416

<210> 9687

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-E4

<400> 9687

agcagggaaa gaagcacaag aaaaatttgg agaaattaca agactcaatc acccgtagac 60
cagttataaa gcccacaagc aatgtcatcg gtccaagtat gccacctgtt gctgtatcca 120

actgtgtggt gccctctgta cagccgaaga agaagagcag ctcagcagca acccggaag 180
atctggaggt gaagaagagg cgagtccttg aggctggagc agcgcagggc gaagtaaaaa 240
tctgccaagt gtgcaatggt gtagtgaaca gccaaaaagt gtacgagttc catattgcgg 300
ggcagaagca ccaggccttg gtacgtaagc agcaaccgct acgttttgtc acatgatgca 360
gagccatddd gctcgtcgtc tttcgtctgg cctcatgctt gtccggaagt tcctctggaa 420
cgagaactca caacatt 437

<210> 9688
<211> 395
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-041-Q1-K1-E5

<400> 9688
cgcaaattgc accaagaaat ccatcgagag gccgtcgaca ggggaattaa tggcgtcggc 60
gtctagcagc agccaccgcc gcctcactct cgcagccgcc gtcctgctct ccgtgctcgc 120
ggctgccagc gccagcgccg ggacctctg cgtgccgggg tgggccatcc cgcacaaccc 180
gtccccgagc tgccgctggt acgtgaccag ccggacctgc ggcacgggc cgcgcctccc 240
gtggccggag ctgaagagga gatgctgccg ggagctggcg gacatccccg cgtactgccg 300
gtgcacggcg ctgagcatcc tcatggacgg cgcgatcccc ccggggcccg acgcgcagct 360
ggagggccgc ctagaggacc tgccgggctg gccgc 395

<210> 9689
<211> 433
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-041-Q1-K1-E6

<400> 9689
aaccgagttc ccagttactc cgcagtcgc acggccgcat ccgtcaagat ccgcgaagag 60
caacgaggcg aggcgagggg agggaaaaca agtgagtgag agagagagag agaggagggg 120
aaatgctgcg ccacgccgcc cgccgcctcg tttcccgcg cgctcgtccg cccaccgcgc 180
gccgggctgt cgccacggcg gaggtgcccg cggaggccgt cgaggactcc acgttcgtcg 240

aggcctggaa aaaggtcgcc cccaacatcg agccccagc gacgcccctc tccctcatgc 300
agccgcgccc gcccacgcca gctaccatcc ctaccaagct caccgtcaac ttcgtcctcc 360
cctacaagtc cgagatcgcc aacaaggagg ttgacatggt aattgtacca gctacaactg 420
gtcaaatggg tgt 433

<210> 9690
<211> 408
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-041-Q1-K1-E8
<400> 9690

cggacgcgtg ggttgagatt gagaagcatc ctatccaagt aactgaagtt gcagttgtgg 60
acaaatcggg catcgaagag gagctgcccagggtcatgc tgagacctca aatgttttgc 120
aagaggcctt tgatgatgac atagacgatt ggttcgagga ggctgatctt gctggccacc 180
caactatcca cataggtgac gaggaagacg tgtcttttag tgacttggaaggagatgacg 240
tgaaatgatt tatagttgca attgcaattt gcaaaggag aaatcgacct gtgtattgga 300
aactggacac ctctgctgta aaagaaaatg gaggtgaaag ttgttcgtag acacctctgc 360
tgtgcaagaa aatggagagg tgaaagtttt tcgtgaatgg gaatgggt 408

<210> 9691
<211> 390
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-041-Q1-K1-E9
<400> 9691

cggacgcgtg ggcgctcctc aactggctgc ggagcttggt ttttaagcca ggcattggagc 60
tctccctgga tgggttgag aatgctggga agacattgct ggtcaatgct gttgctacag 120
gtggctacag tgaggacatg attccaaccg taggcttcaa tatgcggaaa atcaccaagg 180
ggaatgtcac aattaaactt tgggatcttg gtgggcaacg aagattccgc actatgtggg 240
agcgctactg ccgtggagtt tctgctattc tatatgctgt ggacgctgct taccgagata 300
gcatccaat agcgaaaagt gaattgcttg gtctgctgac aaaacaatct ttaactggga 360

atcccttggt tggcctttgc aaccaaattg

390

<210> 9692

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-F1

<400> 9692

ccgacgcgtc cgcacgac acacacactc atacgccgcg aatccacacg catctccggc 60

tgcagtcctc agttctccac cttgccagcg tctctccacg tacgccatgg acgggtcggc 120

gttcccgtcg ctgtcgccgg agctccgcga cgcgctcgcc aagggtggccg tggtcgtgct 180

cgtccagggg ctggtctacc tcatectccg cagctcctcc gacgtcttct ccaaggacgg 240

ccggtcagg tccctcagct tccgccccat gcgctccatg agcgtcaggc gcgtgctggc 300

gccgtctctc gacgtccccg tcggcaccca acaacgccct ttccatcggt gtcgccccgc 360

cgcgacgtcg tcgcaccgca aagctgcccc cgaggattga aatggccgcc acttctgggc 420

agcttgcagt tgcag 435

<210> 9693

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-F10

<400> 9693

cggacgcgtg ggcgcgctcg gatcctctcg cctccccac gtccacctct cgtccgggaa 60

gaatcgggcg cggcgggcggc ggcgggcgagc gccttccctt gtcaaaatcc acccggcggc 120

agagcagagc ctcgttgctg aggaggggag atggcaggca tgaccgatat gccgatgagg 180

ccggcgcggc cgggccccgc gatgcagcac cggggccctc cgccgatggc gcgcctccgc 240

cccgaaccaa tcgaccgca gaagacctgc cctctgctgc tcagggtttt cacaagggtt 300

gctggtcacc accaaaatga agagttttct gtgagaggga aagaacacaaa ggatgaagtt 360

cagatttaca catggaagga tgccactctc cgtgagctta ctgatcttgt gaa 413

<210> 9694

<211> 388
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-041-Q1-K1-F11

 <400> 9694

cggctcttgg gcacgcaacc tccatctccc cacgcttgct tgagcagcag cgctcgggca 60
 cgccgggctgc tactcccctg ctcagccacg acaagccgct gaccatgtgc cgcgccctcc 120
 ctgctcgtcg gccaccagga cggcgtctcc acgcgccgag ttctctccat ggctatccca 180
 aaccctagcc gagatcccct cctgtgttgg ccaactgtct cttcaccagg cgtcctcccc 240
 tatccacgtg ctggcagcac atggcgagct cccccccctg tgccagacga gttcatcact 300
 tcccttagag caacaccttc atccatgggt cccagctgct ccttggagtc tactgtgggtg 360

atctctaaat ccctttgggt gtttacta 388

<210> 9695
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-041-Q1-K1-D6

 <400> 9695

gcaacataga aagcacaata gtgtaccaac aatggcagcc aaaatatattt gcttcctgat 60
 gtccttgggt ctttctgcaa gtgctgctac cgcgaccatt ttcccgcaat gtcacaagc 120
 tcctatagct tcccttcttc ccccatacct ctcatcagcg gtgtcttcag tatgtgaaaa 180
 cccaattctt caaccctaca ggatccaaca ggcaatcgca gcaggcatct tacctttatc 240
 acccttggtc ctccaacaac cgtcacccct attacagcag ttacctttgg tgcatttggt 300
 ggcacaaaac atcagggcac aacaactaca acaacttggt ctagcaaacc ttgctgccta 360
 ctctcagcaa cagcagtttc ttccattcaa ccaactgggt gcattga 407

<210> 9696
 <211> 118
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-041-Q1-K1-C1

<400> 9696

ctgacgcgtc cgaccgtgaa gcacacctat tagctatcgc agcttaacga cgactgcgac 60
cagaccgatt atgtcaagct gctgaatgta ctgggttccg gatcacaacg ctaacttg 118

<210> 9697

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-C11

<400> 9697

ctatctgccg ctccagcctt tcgctagggt ttaaccaccg gcggcgcgcg cgacgggggc 60
aagatgggtgc agcgtctgac ctaccgcaag cggcacagct atgccacgaa gtccaaccag 120

acgcgggtcg tcaagacccc tgggtggcaag ctcggtgtacc agtacaccaa gaagagagcc 180
agcggggcca agtgtccgt gaccgggaag aagatccagg gcattcccca tctgaggcca 240
gctgagtaca aaaggtccag gttgtctagg aaccgcagaa ctgtgaaccg tccctatggg 300
ggagtactat ctggaactgc agttagagaa aggatcatcc gtgcttttct ggttgaagag 360
cagaag 366

<210> 9698

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-C12

<400> 9698

cccacgcgtc cgcccacgcg tccgcccacg cgtccgaggg cggatggcgc gcgggctgcg 60
cggcgtccgc gacgacctat ccgagctggg gcgccacctg ctcgacatcg cctgcttctt 120
gcacccgctc ctcaaccggg cccacaccga ctccccgcca cccaccccca cgggcccgcg 180
ccgcccgcgc cgctccccgt ccccgcaccc cgccgcgccg acgtcacctg cgctcctcgc 240
gggcatactc tcccacctcg ctgaaatcgg cggctccttc cgcggcgggt tactccgctc 300
ctcggcgggc ccccgaccac cccacccccg acgcgctcga gtcaca 346

<210> 9699

<211> 402
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-041-Q1-K1-C2

 <400> 9699

 ggctgaggag cccgggcaac accaacaacc cggcgggctc cgcggtgacg gcggccaacg 60
 tggacaagtt cccgggggtg aacacgctgg gcgtctccat ggcgcgcacg gactacgccc 120
 cgggcggcca gaaccgcgcg cacacgcacc cgcgcgccac cgagatcatc ttcgtcctcg 180
 agggcacgct cgaggtcggc ttctcacca ccgccaacag gctcctcagc aagaccgtcg 240
 ccacggggga cgtcttcgtc ttcccccgcg gcctcgtcca cttccagcag aacagggggc 300
 acggccccgc cgccgtcgtc gccgccttca acagccagct ccagggcacg caggccatcg 360

ccatgacgct cttcggggcc aacgcgcgcg tgcccaccga ca 402

<210> 9700
 <211> 374
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-041-Q1-K1-C4

 <400> 9700

 agctcatcga ctccagattg gagaactcga caccatgaag gtgctgatcg ttgccctggc 60
 tgtcctggcg ctgcgtgcga gcgcgcctc cagtacaagc ggcgggtgtg gctgccagac 120
 accaccgttt catctaccgc ctccgttcta tatgccgcct ccgttctatc tgccgccgca 180
 gcagcagccg cagccatggc aataccccac tcaaccaccg cagctaagcc cgtgccagca 240
 gttcggatcc tgcggcgctg gcagcgtcgg cagcccgttc ctggggccagt gcgtcgagtt 300
 cctgaggcac cagtgcagcc cggcggcgac gccctacggc tcgccacagt gccaggcgct 360
 gcagcagcag tgct 374

<210> 9701
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-041-Q1-K1-C5

<400> 9701

ggacctccta ctgggagggc gaagccacgg ccccggaagc tgcggcggtt tctggaggcg 60
aagcagctcc cggcaccgag gcagaagcgc ctctgtctgc tgctccggcg gcgccagaga 120
tcaccccagc caaagctgac gcctgatcgt cagcgtatta ttcactcaca tgtgatgctg 180
cggctgcgac tcctaaacct taaatctaga aatagctggg gattggggtt gcattgcatc 240
gtgttcttgc cggcttagca agtgactata agaataatgg aataaacgat gacccagtgt 300
gtgtatgatt tccgttctga agaacaacac atcccttgca ggattgttgt tcagtagatt 360
ctacttgtag cgcggctttg gagttccgca aaggacttta cttgttcaag aacttcttct 420
ctgac 425

<210> 9702

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-C6

<400> 9702

cccacgcgtc cggcgatcta aagcagtaga agaatcattg ggtgttggtt cccagaaggt 60
acgtgagact attgaagaaa atatatttgt taggagtaaa gcaaaagaga agcacatgga 120
gtacgaggaa gagatgaagt cccaggagga aatttttcat ggtctaattg aggatattca 180
caaggccaca gaggataaag aaaagcagtt tgagaagttg ttgcaggaag agcgctcaaa 240
ggccagacgc tttgatgttg attctggaac tatgaaagat cgtcagctaa ggaaggaata 300
tgtgcagaag ttcattgatt gccaaagtaa ggatgtggca gagtttgaag ttgagcgaga 360
tgagctgata aaagtccacg aggacaagaa gttgaagctc aagaaggata catggatctg 420
gaac 424

<210> 9703

<211> 224

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-D11

<400> 9703

ggcacatata agcacaattc agactcaciaa tggccgcaa aatattcgcg tcgggtgctc 60
 cttgctcttt ctgcaatagc tgctaccgta acctttttcc cacagtgcta cacaagctcc 120
 tatagctcgc tttctttcat cattcctctt accagctgag tattcaagat ttcaaaaccc 180
 aatatctcaa ccctacaaga tgcaatcggc gatcatcaca ggca 224

<210> 9704
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-041-Q1-K1-D12

 <400> 9704

gatgaaaatc gccgctcaca tctcatctgg cataactatgg cggcgctctt cgtcgggagg 60
 acctcggctt ccaccggcgg tgcctagatc ggcggcgccc ggaccttggc ctctgtcggc 120
 ggtgccccgc tcccctcggc atccaccgac gccggccgac tcactatctc cctccccccg 180
 ttgatgcccc acatcaatgg cggagcacca tctgatctc atcatatgcc ggaagcagcc 240
 tggcatcgtg attggtcgcg tgtgcgagaa atgtgatggc aagtgtgtcg tctgcgacga 300
 gtgcaattat ggttcgttcc agggaagggtg tgtgatatgt ggaggagtcg gcattctcga 360
 cgcttactac tacaagaagt atggttctaa gaagagatga tcgagatgat ttgngctgtg 420
 tgtggttctc ttg 434

<210> 9705
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-041-Q1-K1-D3

 <400> 9705

cccacgcgtc cggcttgggg tggggttggc taggggttgc ttgcgtcttc ttctttccgt 60
 ggggtgctggc ctgccggtcg gcggccaccg gcagggaagg gaacatgtcg aagaagaaca 120
 atcttgccaa gagaagagca gtacgagttc gacctncaac gggagaagga ggccaaggag 180
 aggcaggcca agaagctgca agccaagaaa tccaagatga agatagatgg tgctgaaaag 240

aaacgtaaag gtggccaatt taaggtcggc aagaaaaagg tgaagacgaa acttttcagcc 300
 ttagcaaaag ccaaagccgc gcaagccatg gaggtcgaca agtgactgcg gagcacaagc 360
 atcatcacct taagcgtcga gccagagttg gaactctgaa ttctgtgccc acatgaat 418

<210> 9706
 <211> 425
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-041-Q1-K1-D5
 <400> 9706

caccaagcga agctacctag caacgactta acaacaatgg ctaccaagat attagcccgt 60
 ccttgcgctt cttgcccttt ttgtgagcgc aacaaatgcg ttcattattc cacaatgctc 120

acttgctcct agtgccatta taccacagtt cctccgacca gttacttcaa tgggcttcga 180
 acacctagct gtgcaagcct acaggtaca acaagcgctt gcggcgagcg tcttacaaca 240
 accaattaac caattgcaac aacaatcctt ggcacatcta accatacaaa ccatcgcaac 300
 acaacagcaa caacagttcc taccagcact gagccaacta gatgtggtga accctgtcgc 360
 ctacttgcaa cagcaggtgc ttgcatccaa cccacttgct ctggcaaacg taactgcata 420
 ccaac 425

<210> 9707
 <211> 419
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-041-Q1-K1-B9
 <400> 9707

agaccaacta gcaacataga aagcacaata gtgtaccaac aatggcagcc aaaatagttt 60
 gcttccttat gctccttggt ctttctgcaa gtgttgctac cgcaaccatt ttcccacaat 120
 gctcacaagc tcctatagct tcccttcttc ccccatacct ctcaccagcg gtgtcttcaa 180
 tgtgtgaaaa cccaattggt caaccctaca ggatccaaca ggcaatcgca acaggcatct 240
 taccattatc acccttggtc ctccaacaac cgtcagccct attacagcag ttaccttggg 300
 tccatttggt ggcacaaaac atcagggcac aacaactaca acaacttggt ctagcaaacc 360

ttgctgcata ctctcagcaa catcagtttc ttccattcaa ccaactggct gcattgaac 419

<210> 9708

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-A4

<400> 9708

gatgaatgga cttgctctga tcctatgtgt gtgtggctat gcttgtgctc aatgggtgggc 60

acttttcagt taaagttttg tagtgctgtc tgtcagttgc tgccctcaaac ttggaatact 120

acttctgttt ggcacctgaa ctgcttatca aaaactttat gtataccagt tacattccac 180

ttttaacctt catattagta ttaccatatt ataactgtct tttcagtatt tagtacttac 240

tattcatggg gacttgcacc tttctagtta catggagtga agatatgctg gctgatatgc 300

ggccaacatg cacgtagctt actggtgaag ttgatataat ctgtgctgtt tgcgttgctg 360

atgatgatgg ctgatgagat gatggaactg cagctgactg cacaagttgc tgctgtctgc 420

acctattatg c 431

<210> 9709

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-A5

<400> 9709

ctcttgggcc agcacttaaa gcagctttca tggttatgag tcaaattggg gggaagttgc 60

ttgtcttcca gagtactttg ccatctcttg gtattggctg tttgaggtta cgaggagacg 120

atgtccgtgc atatggaacg gataaggagc atactctgag ggtaccagaa gattccttct 180

acaaacagat ggctgctgaa ttcacaaaat atcagattgc agtggacata ttttctttca 240

gcgataagta ctcagatata gcgtctttag gatctttggc gaagtatact ggtggtcagg 300

tgtaccacta tgcatcattc cagacaccta cacatggtga caaacttaaa cttgagctta 360

gtagggacct tacacgagag actgcatggg aatctgttat gcgtatcaga tgtggaaa 418

<210> 9710

<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-A7

<400> 9710

gtgctctccg cctgcggcct ctgtatcccg caaccaaaaa ctacccccaa aagaagaaga 60
aaaccccaaa tctctgagat ctatcagtat cgagcgactt accaatccga ttgctagggt 120
ttagttttca aaaaatctga aaaaaaattc tggctgaggg gaggaggcga tgcggcgca 180
agtggcggtg gtgcctaata ggggcccggg cgctgtcccc gcggtggtgt cgccgggagc 240
tgcggcggtg gtcagcctc tcccgaccac gtcgctctac gtgggcgacc tggagggggc 300
cgtctcggac tcgagctgt acgaactctt cagccaggcg gggcaagtgg tgcggtgcg 360

cgtctgcagg gatgtcacct cgcgcgcctc gcttcgatac gcctacg 407

<210> 9711
<211> 419
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-041-Q1-K1-A8

<400> 9711

ggagctctgg gcagcgtgcg cacgtggggg acctagctcg ctctgctagc ctaccatggc 60
tgatcaccac cggggcgcgga cgggaggtgg cgggggctac ggcgacctcc agcgcggggg 120
cggcatgcac ggcgaggcgc agcagcagca gaagcagggc gccatgatga cggcgctcaa 180
ggccgcgacg gccgcgacct tcggcgggtc gatgctggtg ctgtccgggc tgatcctggc 240
cggcaccgtg atcgcgctca cgggtggccac ccccgctgctg gtgatcttca gcccggtgct 300
tgntcggccg ccatcgcgct ggcgctcatg gcggccgggt tcgtcacctc cggcggcctc 360
ggcgtcgtg cgctgtccgt gttctcctgg atgtacaagt acctgacggg caagcacc 419

<210> 9712
<211> 280
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-A9

<400> 9712

gcgacaacgg gaccacggtg ttcgactacg tgctccgtgc ggagcagctg gtcacgtac 60
cccagggcta cctcgtcgcc accaaggcgc agggagaagg cttccagtac atcgcttcg 120
agacgaaccc tgacaccatg gtcagccacg tcgacgggaa gaactccgtc ctgagcgact 180
tgcacggccg cgtcatcgcc agctcgtatg ccatctccat ggaagaagct gcagagctca 240
agaacggtag gaagcatgag ctggctgtgc ttactcctgc 280

<210> 9713

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-B1

<400> 9713

ctcggaatga cacgccaatc agccagaatg agatcagaat cactactcag gggaggatga 60
ggaactatat cagctatggg atgtcgctgc ttgaggaaaa tggacatgat gagattagta 120
tcaaggccat gggacgggcc ataaataaga cagttatggg tgttgaattg atcaagagaa 180
gggttgagg tcttcacag aacctgcta ctgaatctgt tgatatcaca gacacatggg 240
aacctttgga agaaggcctt ctccactag agacaactcg ccatgtgtcg atgatcactg 300
tgacactgtc aaagaaccct ctggatacat catctccagg ataccagcca cctatcccag 360
ctgaagaggt gaaacctgct ttgactatg atcatgaaga atcgtatccc actggtcgtg 420
ga 422

<210> 9714

<211> 397

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-041-Q1-K1-B10

<400> 9714

cccacgcgtc cgaaaaaatc agcgagaacc ctggttttct ttttttgttt agcggggggc 60
gcaagagcaa gctgcaagca gattacaggg ccacgaagct cgcccctgct ctgctctcta 120

tcctattagt cctcgaattg ggcttttctc tgctgcgggg ttctggtctc gtctggggtt 180
cagacgccag atttgagca gaggacaccg gtccttggtt tccttgccgc cttgccggct 240
gcaatgttat ggcgcttgcg gngttatgta gagcctgaat tctgtgatga cggngaagtt 300
cgcgctcgtt ggagattttt tctgtgcttt ctcttttctt agctgagaaa tttggtgcta 360
tttggtgctc gccgacgccg agccggaggg cgtaatc 397

<210> 9715
<211> 407
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-041-Q1-K1-B11
<400> 9715

cacccaaata cagatttggt gtgcgattta ccaacaagga catcactgcc caaatcgtat 60
ctgctagtat agcgggtgat atgggttcttg cttctgccta ctgcgatgag ttgccacgat 120
atgggtcttga agttggtctg accaactatg cagctgccta ctgcactggc cttctgttgg 180
ctcgccgtgt gctcaagatc cgtgggttgg atcatgagta cgagggcaat gttgaggcca 240
ctggtgagga cttctctgtt gagccagctg atgagaggag gcctttccgt gctctcttgg 300
atgttggcct tatcaggact acaacaagga accgtgtctt tgggtgccctc aaggagcat 360
tggatggaag cctggatatt cctcacagcg agaaaagggt tgctgga 407

<210> 9716
<211> 417
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-041-Q1-K1-B12
<400> 9716

gcaagtgacc cggacagaat tagattcatt tgaggattat gctgctgatt atgtcagagt 60
at ttgataga ctctgtatca tctggaagcc caacttgcct cactaaagtc cttggtcttt 120
atcagatcac tgccaagaat ttgagagatg ggaaagagct gaagatggat gtaatggtca 180
tggaacacct atttttcaag agaaaggat caagaatata tgacctaaag ggttctttgc 240
gttcccgcta caaccctgat acttcaggga acaacaagggt tctcttggat cttaatctgt 300

tagagacact tcacacaaag cccatttttc ttggaagcaa agcaaaaaga aggctagaac 360
gagctgtctg gaatgatact tcttttctgg catcgggtgga tgtgatggac tactctc 417

<210> 9717
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-B2

<400> 9717

cccacgcgtc cgcggacgcg tggggaagcg gcggcggcgg agcaaacgca ggcgaaggcg 60
agggtgtgag ggaaggagca ccagccatgg tgcacgtcaa cttctaccgc aactatggta 120
agacgttcaa gaaaccaagg cgtccttatg agaaggagcg tcttgatgct gaactgaagc 180

tggtcggtag gtatgggctg aggtgcaagc gtgagctttg gaggggccag tatgcactga 240
gcaggatccg taatgctgca aggcacttgc tcacccttga cgagaagaac ccccgctcgta 300
tctttgaggg tgaggcgctt cttcgccgca tgaaccgcta tgggctgctt gctgagggtc 360
agaacaagct tgattatgtt cttgccctca ccgctgagaa cttcctcgca aggcggcttc 420
aaacacttgt 430

<210> 9718
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-B3

<400> 9718

cccacgcgtt cgaaaaaaaa aaaaaaatat aataaaaaaa aaaaaaaaaa ataaaaaaag 60
aaagaatata aaaaaaaaaa aaataaaaaat aataaaaaaa taacttatac ttaaaatatt 120
ataaaaaaat ttaaaaaatc aatacatact tataaataat gaaaatcttg atgctaaaac 180
taattataat tcaaaaaata ttaaatataa gtaaattatt aaacttttta aaatttcatt 240
atttaatgaa tttgattcat aatcctttat tgcactttat tatcatt 287

<210> 9719
<211> 437
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-041-Q1-K1-B4

<400> 9719

cccacgcgnt cccgngcntt acctgacttg gaggggccgt acccaaaatt ttcaagatcc 60
atgcacgtgc catgaactgt gagcgagata ttcgtttcga gcttctggca cggctctgcc 120
ccaactctac tggagctgat ataaggagcg tttgcacaga agccgggatg tacgccattc 180
gtgcccgcag gaaaacggtg acagaaaagg attttctcga tgctgtcaac aaggtcatca 240
agggtacca gaagttcagt gcaacacca agtatatggt gtacaactag tggcggtgtc 300
ttcatgggat ctgttggttc tagaaactct ggatcttttt catggttgta tcatcatgag 360
attctctatg caaaagtgtg tgtttgttta gcaaattgga tgcccaatgg aattggttcc 420
tgtaccgcat gttttta 437

<210> 9720

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-B5

<400> 9720

ctgacacttc cccaagttgt agcagagttg gaatgtcatg aaaacttta ttgatccggt 60
cctgttccgg ggaacaaggt tttgccaatt ctgccccttc cggggaactg agattaattt 120
gtccttgctg taatgttttag ccaatcctgc cccgatccgg ggaactgaga gattgtcttt 180
atcgcaacat taacagctag cggtagtat catcttccag tcacctggaa tgttactagt 240
agtacaatcc agttgtctgt ttctgccc ttacatgtaa aagtccatat tcaagtttta 300
cagaaagaaa catgttctga catttattac aaaatatacc aaacaactat accagctgaa 360
aaagtgaaaa cctgcttttg actatgatca tgaaga 396

<210> 9721

<211> 409

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-041-Q1-K1-B6

<400> 9721

cccacgcgtc cgctcgagt gctaagatgt taggtgatga atatggtact gcttcgagca 60
tcaagagtag agttaatcgt caatctgtgt tggtgccat cacctcagct cagcagaggt 120
tgaagctcta caacaaagt cctcctaacg gattggttct gtacactgga actattgtta 180
ctgaagacgg aaaggaaaag aaagttacta ttgattttga gccattcaag cctatcaatg 240
tatcactcta cctttgtgac aacaagttcc aactgagggc tttaaagag ctcttggaat 300
ctgatgacaa gtttggttgc attgttatgg gtgtaaatgg tactctnttt ggcacactaa 360
gtggcaatac ccgtgaagtg cttcacanat tcaactgttg cctcccaaa 409

<210> 9722

<211> 418

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-041-Q1-K1-B7

<400> 9722

agcatttcaa gctaacacat tttgaggagg tatttacaac ccaccattgg atggtccgca 60
tatataaact gaaaccccag aagaacaggg ttcgaggcaa gctgaagaag ttgaaggcca 120
gtgccaaaac tagttccaca ctgcgggccg ggcgaaagaa cccgtggcaa tagatgaagt 180
taccaatagt gtcatttacc tgatactttg ttggtagatc aagtgcacta ggttggtgaa 240
ccagaaaacc acagaactag attagagatc tggactattg tattgcaccc tcgttatatg 300
ttgtcgcaac cggccgggtg ctgatgaaat ttttgataga ccagaggagt ttatcaatcc 360
catgggtttg gcggcgataa ttttctagt acaggggttg nttaagacta ccctgtac 418

<210> 9723

<211> 202

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-B8

<400> 9723

cttcagcagc accagcatca gcaacaacat catcagtagc agtgcagcac cagcattggc 60

agcaccagct tctccagttc ctgcacacac aacagcagat tctccagaag caccagtttc 120
 tgtttggttct tctgtttttt ctctcccagc accagcttgt actgcactta cagttaaaag 180
 attattacta acgttgtgtg cc 202

<210> 9724
 <211> 439
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-041-Q1-K1-A3
 <400> 9724

ggaattcccg gctcagacct acctggacgg cgaggagctg gactgacgga tcatttcattg 60
 gatctaagcc caatcccggtg ggggggggtg atgcagcggc ggtgggtaca gtggtggccg 120
 tggaggcggc ggctacagcg gtggcgggcg ccgtgatggc ggcggcggct acagcgggtg 180
 cggcggctac tgtggcggcg gcggctactg tgggtggggc ggcggtctac gccgtggcaa 240
 ccgtggcggc ggctactgca actccgacgg gaactggagg aactgagcgg tggggcccgc 300
 gcggccaagt taccctgttc gctgccgtga tgtttaccct agtcagagg gtttatcttc 360
 gtctgtctcg tgtttgttgt tgcccatctg tgtttttgat tgcaaggctg ctctgtgtca 420
 gatgataatg ctgtgttta 439

<210> 9725
 <211> 301
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-040-Q1-K1-H1
 <400> 9725

cattgaacat gtgactatct aataaaactc tgtcagaatg gaggagctga aaaacatggg 60
 ggcaacatgt tattaggaaa aaatttaatg aaaacaagga ccatgagcat tctggtagcc 120
 tagatgacac cgatcgtaac agaccaacca ataatgataa tgaatacgtt tcctccgcga 180
 atgatggagg tgatggcagc tggaaatctc agagaaagaa aagagagaaa gaagatgatg 240
 aaactgacct cgaaaatggt gatccttctt ctacatcaaa gaacccaaga gttgtttggt 300
 c 301

<210> 9726
 <211> 471
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-040-Q1-K1-H4

 <400> 9726

tactggtctc ggaattgccg cgtacccgcg actcctcgga cgcgtgggcg gacgcgtggg 60
 agcaatttca acgctgtcat tctcaagagg cttgtcatga gtaaaaccaa ccgaccacca 120
 atctctatgc gccgccttgt caagtttatg gaaggaaagg agaagaacat tgctgtcatt 180
 gttggcacag tcacagatga caaaaggatc caggagggttc cagcaatgaa ggttactgcc 240

ctgaggttca cggagacagc aagggccagg attgtcaatg ctggtggcga gtgcctcaca 300
 tttgaccagc ttgctcttcg tgctccactt ggcgagaaca cggtcctctt gaggggcccc 360
 aagaatgccc gtgaggcagt gaagcacttt ggcaaggctc ctggagtgcc gnacagccac 420
 accaagccgt atgtgcgctc caagggaagg aagttcgaga aggctcgtgg c 471

<210> 9727
 <211> 446
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-040-Q1-K1-H6

 <400> 9727

gtcctcggac gactcgtccg cgacgccaat ggaatgtcga tgccgttggc ggcggggttc 60
 gggggccagg cggcggcgcg cgaggcggcc gggtggcgcg tcgacatgat ccgccagaag 120
 aagatggccg gtcgcgcgct gtccttgcg ggcccgcgccc ccacgggcaa aacggcgcta 180
 gcgctcggca tagcgcagga gtcgggcagc aagggtcccat tctgtcctat ggtaggatca 240
 gaagtgtact cctcagaggt caagaaaact gaggtgctga tggaaaattt ccgtagagct 300
 ataggtttgc gtataaagga aaacaaagag gtttatgaag gagagggttat tgaactttcc 360
 ccagaagagg ctgagagcac aactggtgga tatgcgaaaa gcattagcca cgtaatcatt 420
 ggcttaaaga ctgtcaaagg gactaa 446

<210> 9728
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-H9

<400> 9728

tcccgctctcg aggcacgcgt acgccaacat agaaagcaca atagtgtacc aacaatggca 60
gccaaaatat tttgcttcct tgtgctggct tatctttctg caagtgtgc taccgcaacc 120
attttccac aatgctcaca agctcctata gcttactttc ttaccccata cctctcacca 180
gcgggtgtctt cagtatgtga aaaccaatt cttcaaccct acaggatcca acatgcaatc 240
gcagcatgca tcttaccttt atcacccttg ttccttcaac aaccgtcagc cctattacag 300
cagttacctt tgggtgcatth gttgacacaa aacatcaatg cacaacaact acaacaactt 360
gtgctaagaa accttgtgc ctactctcag caacagcagt ttttttcatt caaccaactt 420
gcttgcatt 428

<210> 9729
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-A10

<400> 9729

cccacgcgtc cgcccacgcg tccgcccacg cgttcgccca cgcgtacgga gccctgggac 60
cttcttgata caaccacagt tgttgccgtt ctaccagcac gctgcgccta acgctggcac 120
cctcttacia ctgcaacaat tgctgccatt caaccaactt gctttgacaa acccagcagc 180
gttctaccaa caaccatca ttggtggtgc cctcttttag atttcttatg agttatagtt 240
caataataaa gttgtttgtc tgatgtttgt ggcttcccag aaataagaac gtacatctct 300
agattctaac aaaaaaagcc caacagtagg cacagtctca aaaaaatatt cccg 354

<210> 9730
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-A12

<400> 9730

cccatacctc tcaccagcgg tgtcttcagt atgtgaaaac ccaattcttc agggcctgca 60
ggatccaaca ggcaatcgca gcaggcatct tacctttatc acccttggtc ctccaacaac 120
cgtcagccct attacagcag ttacctttgg tgcatttggt ggcacaaaac atcaaggcac 180
aacaactaca acaacttggt ctaggaaacc ttgctgccta ctctcagcaa cagcagtttc 240
ttccattcaa ccaactgggt gcattgaact ctgctgctta tttgcaacaa caactaccat 300
tcagtcagct agctgctgcc taccgccagc aatttcttcc attcaaccaa ctggcagcat 360
tgaactctgc tgcttattta caacagcaac agctaccacc attcagccag ctagctgatg 420
tgaaccctg 429

<210> 9731

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-A2

<400> 9731

caagcaccaa gccatgtact tcccatgctc ttgggtcaca cttggccatc atgcttgagg 60
gcgcatagac ggcatgggtg atttcaggaa cagagagctg ctcatggtaa gccttctcag 120
cagagattac aggggcatat gaggaaagca tgaaatgtat acgtgggtat ggaacaaggt 180
tggtctggaa ctcggtgaca tccacattga tagcaccatc aaacctcagg gaggtgggta 240
gagatgatat gatctgtgag atcagcctgt tcaagttggt gtaggttggc ctttcgatgt 300
caagggacct cctgcatatg tcatagatag cctcgttgtc caggaggact gcaacatcag 360
tgtgctcaag caaggagtgg gtggagagga cactg 395

<210> 9732

<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-F4

<400> 9732

acaatctcct atatcttacc tccttctctc atacctctta ccaacaattt cttcaaaaat 60
tcaaaaccca atttctcaac cctacactat ccaacatttc aatcactatc attcatctta 120
ccattatcac ccttattcct cctacatcct tctatcctat tacatcaatt acctttcttc 180
catttcattc cacaaaacat tattacacat caactacaac aacattttct aactaaacct 240
ttcttcatac tatcatcaac ttcattttca ttcattctac c 281

<210> 9733
<211> 428
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-040-Q1-K1-F5
<400> 9733

agcgtacaac ctccaacatg acctacaagg cctggcggcg tgagcctgag gagggagcta 60
taatgtactg cagccgcact atttttgagg atgctacacc tgaactgggt agagatttct 120
tctgggatgg tgattttcgt ctaaagtggg atcccatgct tgcatactcc aaatctttgg 180
atgagttccc tcagaatgga gcaacaattg tccactggat aaaaaagttc ccattctttt 240
gcagtgaccg tgaatacatc tttggaggac gcatatggga atctgggaag acttactatt 300
gtgttacaaa ggggtgtcca tatccatcat tgcccaagaa agaaaaacca aggcgtgtgg 360
agttgtactt ctcaagttgg cgtattagag ctgttcaatc gcctaaacat gtgggtcagc 420
aatctgcg 428

<210> 9734
<211> 240
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3059-040-Q1-K1-F6
<400> 9734

tctagccaca catccaagct tacaacctc aacatnacct ttttctctc actacntaac 60
cctaataaag ttgttatatt aaacattttt cgcgccataa aacaccatac tacacattaa 120
ctatctacat atttcttctt aaatcatata ttctcatcta aaaccaactat cccatttttt 180
catactcaaa atctaaaaat cattatccat tataatcaaa catcaattaa ccactttata 240

<210> 9735
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-G3

<400> 9735

cccacgcgtc cgccccacgcg tccgtgatca taggtattag tgaagttgat cccatagggt 60
ggcctggatc aaaatggaaa tctctcctga taaagtggga tgggtgctact aagtacagcc 120
accagaatag agtatctcca tgggacatcg agggagttgg cagctcagtt ttagttactc 180
accgtctttc ctcttctggt tcgaagcgaa caaaactgtg cttccctcca agcgatttga 240
acacaccaat tctagatgga aatggtcgtc cagactccgt ggaaactgaa cgtttccaca 300
gggtcttgca gggtaaaaaa tgggtgccacc ctaatatcaa tgtgcctcat ggctttaatc 360
atcaaatagc cccaaaagtc aagggtctta atgcaaggag attctctgct gatgtgtgga 420
actgcaagat gaatgat 437

<210> 9736
<211> 291
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-G6

<400> 9736

acaaaaaatt ctatcaatat cccatctaca ttttaattta tgtcctttta aaatatcatc 60
atccacctac tctcacact ctcaacctcc atactactct acaacctccc ttctcccacc 120
cccaacacct acaccttcta cattctttta ctaaaccatc caaaacaact acttccctaa 180
ctaccactct tactatacca tccttacctt catcatctaa cctctcctac tcataccata 240
tctcaaaatt atatacttcc tttatctcac atacatacct ttctacttac t 291

<210> 9737
<211> 424
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-040-Q1-K1-E12

<400> 9737

aacccatcca acttcccaaa cgaaccacga accagtccta taaaaaacat atggacaggg 60
atccaaagaa cacaagtcaa gcacacgaat ccaaagaaca cgaaccggca gttcagcttc 120
ctgtccgaga cctcggggag gcctgccttc tcggctctcg cgttaccgat cgaggcgtgg 180
agagaaatgg cggcggcagc agcaacaaga gcaggagcgt ggggcgtggc gtggctcctg 240
gcggccaccg tggcggcggc gctgctggcc tcggcgtcgg cgcagtcagg gtgcacgacc 300
acgctgatca gcctgtaccc gtgcctcaac tacatcagcg gcaacgtgtc ggcgccnccg 360
tcctcgtgct gctcgcagct cgccagcgtc gtgcagacca acccgcagtg cctctgcgcc 420
gcgc 424

<210> 9738

<211> 402

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-040-Q1-K1-E4

<400> 9738

taccaagtcc tcctcgggtt agggttcctg anggttttgt ggaggggcca tggcggcggc 60
tgatgtggag taccgttgct tcgtcggcgg gcttgcttgg gccaccagca acgagtcgct 120
ggagaatgcc ttgcctcct acggcgagat cctcgactcc aaggtcatca ccgaccggga 180
gacggggagg tctcgggct tcggcttcgt taccttctcc tccgagaact ccatgctcga 240
cgctatcgag aacatgaacg gcaaggagct cgacggccgt aacatcacccg ttaaccaggc 300
ccagtcccggt ggcgggtggcg gtggcggcgg tggctacggc ggcggtcgcg gcggcggcgg 360
ctatggtggc gggcgccgtg actgcggtta tggcggcggg gg 402

<210> 9739

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-E8

<400> 9739

ggcggagggtt ctatcagaga tagaggagga aaaacttgaa tctgaagaag tagagggaga 60
agaagagagt tctgaggatg agttagatcc atttgtaaag tctgaccta agttaccaag 120
agttgtccga atggcaaacc tctgtgttgt tgggtgggcat tcagtaaag gtgtagctga 180
aattcacagt gaaattgtga aacaggatgt gttcaacagc ttctatgaga tgtggccaac 240
taaatttcag aataaaacaa atggagtgc tcccaggcgt tggatccggt tttgtaatcc 300
tgcattaagt gcattaattt caaagtggat tggttctgat gactgggtgc ttaatacaga 360
caaactggca gaactgaaga agtttgctga taatgaagat ctgcattcag agtggcgtgc 420
tgctaag 427

<210> 9740
<211> 52
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3059-040-Q1-K1-D10
<400> 9740

gctgggncca ccagctttga ccgccgctc ccattcccct ccgcttactg cg 52

<210> 9741
<211> 429
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-040-Q1-K1-D5
<400> 9741

gacgttgcc cttgctctcc tggcgtcgc tgcgagcgc gcctccagta caagcggggg 60
ctgtggctgc cagacaccac cgtttcatct accgcctccg ttctatatgc cgctccggt 120
ctatctgccg ccgcagcagc agccgcagcc atggcaatac cccactcaac caccgcagct 180
aagcccgtgc cagcagttcg gatcctgcgg cgtcggcagc gtcggcagcc cgttcctggg 240
ccagtgcgtc gagttcctga ggcaccagtg cagcccggcg gcgacgcct acggctcgcc 300
acagtgccag gcgctgcagc agcagtgtg ccaccagatc aggcaggtgg agccgctgca 360
ccggtaccag gcgacatacg gtgtggctct gcagtccttc ctgcagcagc agccgcaggg 420

cgagctcgc

429

<210> 9742
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-D7

<400> 9742

ataaactcca tctctatcc tcacaact acacacatca tacatgaaca ccacatcaag 60
aatctcacca ctttcttcta tcaactaaca atcatcaata aatcttataa caaattacac 120
accaactgaa tttcacctct acttccaaca tctcatcctc ttaccaaacc ctacctcata 180
tctctctact atacacaact gctcatatat gtgcctatac tcatcatcat cactcaacaa 240
ttcatgggtc acatcacaaac cacaatcttt catcttatca acgattcact cactaatata 300
taagcatatt tattt 315

<210> 9743
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-A4

<400> 9743

cgcgaaacgcg tccggggacg tgtacgagat gacgcacgac gagctggatt tcgagttcgt 60
gggaagccgg tggggcgggc agtggcgcggt gcagaccaac gtctacggca atggcagcac 120
tagccgcggc cgggaggagc gctacctcct ccccttcgac cccaccgtcg agggccacag 180
ctactccatc ctctgggctc ccacccacat catctttctac gtcgacgaca cgccgatccg 240
ggaggtgatc cggcaccgga acatgggcgg cgacttcccg gcgaagccga tggcgggtgta 300
cgccaccatc tgggacggct ccgcgtgggc cacggacggg ggcaagtaca aggtcaacta 360
caagtacgc 369

<210> 9744
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-A5

<400> 9744

ccacgcgtcc gcgcgccttt cccgcaaggt tgcttctact ctaatgccct tggaggattg 60
aagtgtctgcg agaatcccaa gaacaaagtg actgccgttc ctgcaaacga ggaggaaatc 120
tgccggcgcaa ccttccaggt ggaaggggct acgggtgctca cagcgctgca ttaggagatg 180
aggtgtcttc ctccgtctcc aggcctggac tgggggcaac tgtacatggt gcctgggtgg 240
gtaatgtaac ataacggcaa tggcatatgc agctgatcct ggtctgcctg tatcatctcc 300
tcccaccgt aaagagaagt tctttctgcc gccatcgcca tggtcagtca gagcttctct 360
gctatagctg ctggatgtgt tgtgtgttgc gtctgtatcg tctctagttt gttcgactta 420
cgtg 424

<210> 9745

<211> 167

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-A6

<400> 9745

aaaaaaaaa aaaaaaaaaa aaaaatttaa aaaaaaaaaa aaaaaaaaaa aaaaaaatga 60
aaattaaaaa aattaaaaaac acaaaaatc aacataatat aatcaaaata ttatatcacc 120
ttaacttcaa taaactaaca catcatttta caacttcaaa tactctt 167

<210> 9746

<211> 403

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-040-Q1-K1-A9

<400> 9746

atttgtctac actatcaatg tagttgctga atctgtatta acatgcctca ctggcaggga 60
catgcaattc tgaaggacct cgtccgcaag gctatcaatg aaacacatga gctgaagcag 120
tttcccaccc ttcgtgtgga agtaggcaat gcagcttttg agtcattgga tagaatgagg 180
gatgaaagca agaaaaatac attaaagcta gttgacatgg aatgcagcta cttgacagta 240

gatttcttca ggaagcttcc ccaggatggt gagaggggtg gaaatccaag ccactctatt 300
 tttgatagat ataatgactc ttatcttaga cgaattggac aaactgttct gtcatatgtt 360
 aatatggtgt gttcgacctt gaggaactcc atcccanaat cta 403

<210> 9747
 <211> 432
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-040-Q1-K1-B12
 <400> 9747

gaatcccaag aatcgggtga agacgaagct agcagcgcgga tattcccca gcggtcggca 60
 attgcctgga tcggaaaatc actaccgatc tcgaggattc ggtcggcta ttgaaacggt 120
 acgttaatta atcgcgtgat gcggaagacg agccaagtcg accccaagcg tgggcttctt 180
 cgcaaggcga tgctgatgga caaacctgaa gatggtcgtc aagtgtcat cgactaacia 240
 cactaaccta gtgttactca ggttctaact ttgtgctgtt gttgatggtg ttaagtgccg 300
 gtgggctcgg ccttcttata agtctaagta acccttctat acttcttatt gaggatgatc 360
 ccttgagcta gcatatatat ttcaaaacta tacttttgta atcactccga ttaactaatg 420
 taaaattttt gt 432

<210> 9748
 <211> 332
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-040-Q1-K1-B2
 <400> 9748

gagatccatc gagaggccgt cgacagggga attaatggcg tcgtcgtcta gcagcaggcg 60
 ccgtgcctc atcctcgcag ccgccgtcct gctctccgtg ctcgcggctg ccagcgccag 120
 cgccgggacc tcctgctgac cggggtgggc catcccgac aaccgctcc cgagctgccg 180
 ctggtacgtg accagccgga cctgcgcat cgggccgcgc ctcccgctggc cggagctgaa 240
 gaggagatgc tgccgggagc tggcggacat cccggcgtac tgccggtgca cggcgctgag 300
 catcctcatg gacggcgcgga tcccgccggc cc 332

<210> 9749
<211> 75
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-B3

<400> 9749

ccaccaacct gctctccctc ctctctgatg ccatcaccag ctccttgacc tccttcctac 60

cggggtgggc catcc 75

<210> 9750
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-B5

<400> 9750

agaggatcct gtgggtcaaag atgctgtaca ccatgctgtg aaatcgatcc aagagggggtc 60

caactccctg tttccctacg aacttctcga gatccttcgt gcccatgcac aggttggtgga 120

agactttgca aaatttgaca ttctgatgaa actgaagaga ggcagcaagg aggagaagat 180

caaagcagag gtccataaga gcctggaagg ggcctttgtg ctaaaccagc atcagccggc 240

ggagcatgat gagtcgagca gccagtgaac tgacgtaact gtgtgagctg tagtagtaac 300

gtacttcgtg ttacgtagaa gaataaggag aaaacgacca atccggtttt atctggatgt 360

catgtatggt cgacggtcgt tgctggcttg gcttccgaag acggtacctg ctgtcgc 417

<210> 9751
<211> 268
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-040-Q1-K1-C1

<400> 9751

cttctttccc tttttataaa ctcaacaaat tccttcatta ttccacaatt ctcactttct 60

cctaatacca tttttccaca ntctctccca acaattactt caatnnnctt cnaacaccta 120

nctnttcaat ccaacattca acaacaatct ctatctacta acttcttaca acaaccaatt 180
 acccaatttc aacaacaatc cttaccacat ctaacaatac aatccatcac aactcaacat 240
 caacaacaat tcctaccatc actttacc 268

<210> 9752
 <211> 525
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-039-Q1-K1-G5
 <400> 9752

accggtttcg gaattacccg ggctcgacgc cagtcgtct cgccgcacgt cgtctcgtc 60

cagtcgtct ctgtactaat cagtaaccaa gggcctaaaac ttcaacatgg tcccgcgaag 120

ggctccatca tgatnnctct atgagaagtt actacaatca gtaacaatgt caataccttc 180

aagttgtatg ttagggagaa gttttcatct ctttgacgaa tttgatgatc nttcttccca 240

agtaccctga gctttttgaa gggatatngt tgactcggac aacgcntgcc cctgaaccgt 300

gtcacgaaga atatgcttca acaacatagc agtctcaaag accattcaag aagaatgctg 360

attccgcaaa agccctttga cattgaatca ggatactttt gctgaagaag acccctgatg 420

aagtaccagc acccaaggat aagacaggat gaaagaggaa aagcgaagat ggaggaagaa 480

gaaaggccag ttcgccaaag ttctggaatg agtttggcaa atcaa 525

<210> 9753
 <211> 429
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-039-Q1-K1-G7
 <400> 9753

cccacgcgtc cgcccacgcg tccgcccacg cgtccgcttc aaccctacag gatccaacgg 60

gcaatcgtag ctggcatctt acctttatca ccttggttcc tccaacaatc atcagcccta 120

ttacagcagt tacctttggt gcattttattg gcacaaaaca tcagggcaca acaactacaa 180

caacttgtag tagcaaacct tgctgcctac tctcagcaac agcagtttct tccattcaac 240

caactagctg cattgaactc tgcttcttat ttgcaacaac aacaactacc attcagccag 300

ctacctgttg cctacccccca gcaatttctt ccattcaacc aactggcagc attgaactct 360
 cctgcttatt tacagcagca acaactacta ccattcagcc agctagctgg tgtgagccct 420
 gctaccttc 429

<210> 9754
 <211> 411
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-039-Q1-K1-G8
 <400> 9754

ctgcactgaa ccctgctgct tatttgcagc aacaactatt accattcagc cagctagcta 60
 ctgcctactc tcagcaacaa caacttcttc catttaacca attggccgca ctgaaccccg 120
 ctgcttattt gcagcagcaa atactactac catttagcca gctagctgca gcaaaccgtg 180
 cttccttctt gacacagcaa cagttgctgc ctttctacca gcagtttgcg gctaaccccg 240
 caaccctctt acaactacaa caattggtgc ctttgtcca acttgctttg acagaccag 300
 cggccttcta ccaacaacac atcattgggtg gtgcctctt ttagattgct tattagttgt 360
 aattcaataa taaagttttt tggatgatgt atgtggccaa ccagaaataa g 411

<210> 9755
 <211> 386
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-039-Q1-K1-H1
 <400> 9755

gggttggtt ctcctacccc tccggttcgg gttcgggttc gtgaggttct acggggtgcg 60
 gttgcgtggg tgagcggatc gagatggcgg cgtctgatgt tgagtaccgc tgcttcgtct 120
 gcggcctcga ctgggccacg gacgaccact cctccacaa cgccttcagc acctacagcg 180
 aggtcctcga gtccaagatc atcctggatc gggagacgca gaggtccgc ggcttcagct 240
 tcgtcacctt ctccacggag gaggcgatgc ggaacgccat cgagggcatg aacggcatgg 300
 agctggacgg ccgcaacatc accgtgaacg aggccagtc ccgagtcggc cgttgaagct 360
 gctgcggtgg gtacagtggg ggccgt 386

<210> 9756
<211> 118
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-H10

<400> 9756

gaggtacaaa gccgttgta gcttggttag aagagtatcg gctatgtcca aagcatggcg 60
atatggtgat gcagcaaaac ttatgtcaat gcttgaagat gcttcaaagtg gggttttct 118

<210> 9757
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-H11

<400> 9757

gtctcaacat gcagcgtgtt atgcaaaata atgctgctgt attccgtaca caggaaacac 60
ttgaagaagg ttgtgagctg attagcaaaa catgggaaag tttccatgat gtgaagctca 120
gtgaccggag tctcatttgg aactctgacc tgatagagac ccttgagctg gaaaatcttt 180
tgataaatgc atgcataacc atgtattcgg cagaggctcg gaaggaaagc agaggagctc 240
atgctcgtga ggatttcacg acaagagatg acgagaagtg gatgaagcac tcaactggagt 300
actgggaaaa cgagaaagtt cgattggcat acaagccatt gcacatgaac acattagacg 360
atgaagta 368

<210> 9758
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-H12

<400> 9758

aacaccaggc tccagattat ggtcaaccgg tcgtgcggaa agggcagggg ctctgcccg 60
gtcccgccga ggccgccagc ggaggacaag aagccctgca acaggaccag catcaacagg 120
ggctccctcg tgaagcggat gcccttcttc cgccgcagca ggtcgcgtcc tcgctcaagg 180

gcggcgatcat ccaaagatgg gctcatcgtc gtcggtgacg ggaaagagag cgacggcgac 240
 agcgcggttg cgcatccagc gccgacgacg ccgacgatgg gcctagtcca gatgaagcgg 300
 ttcaccagcg ggcgctccgc gtttaaggac ttcgactggc ggaaggagg 349

<210> 9759
 <211> 359
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-039-Q1-K1-H3
 <400> 9759

cccacgcgtc cggttccctt ctgacccatg ggacagggtt tctgattccg ccaaggagct 60
 cgtgaccggg atgctgcggc ggcaccctag gctgcggctc acggccaagc aggttctaga 120
 gcatccgtgg atgcaggaac acgcggaacc acaagactcg tgcgggcagt gccacgagac 180
 cggccttcaa cgggagggcg ccggctcgtg ctcttctac acgccgttg cgtcgcggag 240
 catggacgtg agctttgaca cgcgtggccc catcgcggtg aggggtgggg gcgaggacga 300
 ggcgacctgc tgctcgccca cgttcgccgt cgtctgcagg tcgtcgttct cggcgttca 359

<210> 9760
 <211> 383
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-039-Q1-K1-H4
 <400> 9760

aaacctcatt gattggataa tcagagcaca gcatgtgcca actgacaact actaattgca 60
 ccgtatgctc ctgatgtaaa tcggagctac tctatcctac tatcacaagg tctttcgggtg 120
 acttcagcat gtctgcctc atcaactgta tttcgcatc ctcaagtacc tactcgtaag 180
 tgctctccct cccctgaat ctggtctatt ctccatacaa tcgcaaatca cgcggtgcta 240
 gcaagtaaga attgctcact gtctcacatg tttgatattc ttctgtacta tttcaacctt 300
 tagttgcatt catatgctta agtctgattc ttcttctgta taatcctatc tttgacagta 360
 ctagaaaatt attctcatga tat 383

<210> 9761
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-H5

<400> 9761

gagcattcag aaacacacca agcgaatcac attagcaaca acctaacaac aatggctagc 60
 aagatattat ccctccttgc gcttcttgcg ctttttgca ggcgaacaaa tgcgttcatt 120
 attccacaat gtcacttgc tccaagttcc attattacac agttcctccc accagttact 180
 tcaatgggct tcgaacaccc agctgtgcaa gcctataggc tacaacaagc aattgcggcg 240
 agcgtcttac aacaaccaat ttcccagttg caacaacaat ccttggcaca tctaacaata 300
 caaacatcg caacgcaaca gcaacaacaa ttctaccag cactgagcca cctagccatg 360
 gtgaaccctg ccgcctactt gcaacagcag ttgcttgcac caaaccact tgctctg 417

<210> 9762
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-H6

<400> 9762

gctccaacaa gcaatcgcag caagcatcat acctttatca cccttgcttc aacaatcgcc 60
 agccctatct ttggtgcagt cattgggtaca aaccatcagg gcacagcagc tgcagcaact 120
 cgtgctacct gtgatcaacc aagtagctct ggcaaactt tctccctact ctgagcaaca 180
 acaattttctt ccattcaacc aactgtctac attgaaccgt gctgcttatt tgcagcaaca 240
 actattacca ttcagccagc tagctactgc ctactctcag caacaacaac ttcttccatt 300
 taaccaattg gccgactga accccgctgc ttatttgcag cagcaaatac tactaccatt 360
 tagccagcta gctgcagcaa gccgtgcttc cttcttgaca cagcaac 407

<210> 9763
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-H7

<400> 9763

ctgctcctcg cctcctctcc ctagccttca cgacgcatgg gagagtgacg gaaagcgacg 60
cggcgcgagc gaggagggcc aagggggaaga ggggaagcac cgcaccagga cccttgttcg 120
ccgccgtcgc ctctgatctc cgcgagggtg tcaggattca atatgtcgac cagcacattc 180
gctacttcct gcacgctggt gggcaatggt agaacaacgc aggccttcca gacagcggtg 240
aagagccctt cgtctctaag cttcttcagc caagttacga aggttccaag cctgaagacc 300
tccaagaaac tggatgtcta cgccatggct gtatacaagg tgaagcttgt cgggcctgaa 360
agtgaagagc acgagtttga tgctccagat gacgcctaca ttcttgac 408

<210> 9764

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-H9

<400> 9764

ggggccgtca agtcaacca cggtcattac atcgcatcaa ctggtcgggg ggcctgcgcc 60
acgccaaaga gtgcgaggcg tcgggcttct gctacgtcaa tgacatcgtg ctcgccatac 120
tcgagctgct caagcatcac gagagagttc tgtatgtcga tatcgatata caccatgggtg 180
atggagtgga ggaggctttc tacacaacag atagggttat gactgtctcg ttccacaagt 240
ttggtgatta tttcccagga acaggggata tccgtgacat tgggcactca aaaggggaagt 300
actactccct gaatgtccct ctagatgatg ggattgatga tgaaagctac cagtcccttt 360
ttaagccaat catgggcaaa gttat 385

<210> 9765

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-A1

<400> 9765

gttggttgt gttcaaagt gggcttttgg acagctgtgg ggggcacggc agctctgtga 60
cttgtgaaga ggaagggagg aagaaagcgg atccatggcg tcgaagcgga tcctcaagga 120

gctcaaggac ctgcagaagg atccttccac ctcttgcagc gcaagccctg ttgccgaaaa 180
 tatgttctac tggcaagcga cgattatggg gccatcagat agcccatacg ctggtggcgt 240
 atttttggtc actattcact ttccaacgga ctaccattc aaaccaccga aggttgcatt 300
 caagacgaag gtttaccacc cgaatatcaa cagcaacggg agcatctgtc ttgatattct 360
 gaaggagcaa tggagccctg cactgacagt ttcta 395

<210> 9766
 <211> 218
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-039-Q1-K1-E7

<400> 9766
 ccggtttcgt gaattacccg gggctcgacg ccacgtcgtc tcgtcccacg tcgtctcggg 60
 ctcgctccctt tttttgtttt ttttttaciaa gaatgtcaaa agtcgctgcy taatgtgtaa 120
 cgtgaaacta tttgtgggca tcggaggaat cgtttactag tactatatng cagttggaac 180
 actatctcaa acgtcagggg agattatagt ctgtccca 218

<210> 9767
 <211> 416
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-039-Q1-K1-E9

<400> 9767
 gggacttcta agtaccagct ctctgtatct atcaaggatg ttagtggcca aaggattggt 60
 gaatatgcta gtgcctcggg aagtgttgat tttgattctg tgctgtgtag aaactgtaag 120
 cgccatatag ccagccagtc tgctcatctt catgaggcat actgcatgag acacaatgta 180
 gcctgtcac atgatgggtg tggagttgtc cttcggaagg aagaagcagc agatcatgtg 240
 cactgcaaca agtgccgacg agcttaccag cagagagaaa tggaaaagca tatgaaagtc 300
 ttccatgaac cgttgcagtg cccctgtggg gtggtcctgg agaaggaaga tatggttcag 360
 caccagtcct tgacttgccc cttgcgatta attgtgtgcc gcttctgtgg tgacac 416

<210> 9768
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-F11

<400> 9768

gcgcttcttg ccctttttgt gagtgcacaa aatgcgttca ttattccaca atgtcactg 60
 gctccgagtg ccattattcc acagttcctc cctccagtta cttcaatggg cttcgaacac 120
 ccagctgtgc aagcctatag gctacaacaa gcgcttgagg cgagcgtctt agaacaacca 180
 attgcccatt tacaacaaca atccttagca catctaacca tacaacccat cgcaacgcag 240
 cagcaacaag cactgagcca cctagccgtg gtgaacccta tcgcctactt gcaacaacag 300

ctgcttgcat ccaaccact tgctttggca aacgtagctg cataccatca acaacaacag 360
 ttgcaacagt ttctgccagc gctcagtcac ctagccatgg tgaaccctat cgtctacc 418

<210> 9769
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-F12

<400> 9769

aggcacgcgg gggcgcaagg cgcgacggct cagcgcggtc tcgactgccg gtgtacgggg 60
 cagccacccc gtggcgggcg gctcccgacc tcaacggctc gggcgcgggg ccggctgctc 120
 ggccatggcg gcacaagtgc gcggccccct gagcgggcga gcgcgcagtc ccgcggctct 180
 ggcagtgcgg gcgctaacca ggcgcagcca gtgtgggttc gtcccgggcg gcgcatggta 240
 ccggccatgg tgccccgttg aggcgcgtgc gcgcacatgg tattctcacg gaggcaacca 300
 gacggtcgaa cggatcatca tggtagagaa cactccatgc ataggagtgg gcagaaaggt 360
 aaatctggtt gttgaaacaa attaacatac gatctttgaa aacctgttgc tgagtaa 417

<210> 9770
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-F2

<400> 9770

cattcaacca actagctgca ttgaactctg cttcttattt gcaacaacat caactacgat 60
tcagccagct acctgctgcc tacccccagc aatttcttcc attcaaccaa ctggcagcat 120
tgaactctcc tgcttattta cagcagcaac aactactacc attcagccag ctagctggtg 180
tgagccctgc taccttcttg atacaaccac agttgttgcc gttctaccag cacgctgcgc 240
ctaacgctgg caccctctta caactgcaac aattgctgcc attcaaccaa cttgctttga 300
caaaccagc agcgttctac caacaacca tcattgggtg tgccctcttt tagatttctt 360
atgagttata gttcaataat aaagtttttt gtctgatgtt tgtggcttcc cagaaataag 420
aaagtacatt tctaaaa 437

<210> 9771

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-F3

<400> 9771

gtgcactgaa gaagcctgga ggagatgaaa tgctgatagg catttctcat aagccatcat 60
cccatacatc tcatctagca tttcctggcc aaacctctgc aacaaattct gatgtccgag 120
ttcacactaa agctgttact tttgaagacg acatatatgt agttagtctg tcaaagtctg 180
ctaccttgct actggattct atacagtctg atcctgtgct caagaattct tcagaccccg 240
ctctatctcg tgacagaaaag ataatatcaa gtggactaaa ggcctttaca ggatctatca 300
ttgagcacga cgactatgtt tccaccattg aaccttctgt ggctagtctg ttggcaaaac 360
ctggtactag tgcttcttca aggcccgtgt caa 393

<210> 9772

<211> 102

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-F4

<400> 9772

gcagtggctg ggctgctttt ttagctggga gcttacatac cttgtctggg ccagaccatc 60
 tgggtgccct ggcgccactg tcaatggcca gatccagact tg 102

<210> 9773
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-F5

<400> 9773

caactagcaa catataaagc acaatagtgt accaacaatg gccgccaaaa tatgttgctg 60
 ccttatgctc cttggtctct ctgcaagtgt tgctaccgca accattttcc cacaatgctc 120
 acaagctcct atagcttccc ttcttcccc atacctctca ccagctgtgt cttcagtgtg 180
 tgaaaaccca attgttcaac cctacaggat ccaactggca atcgcaacac gcatgttacc 240
 attatcacc cttgttctac aacaaccgtc agccctatta caagagttac cttaggtcca 300
 tttggtggca caaaacatca tggcacaaca actacaacaa cttgtgctag caaaccttgc 360
 tgcatactct cagcaacatc agttttattcc attcaaccaa ctggctgcat tgaactctgc 420
 t 421

<210> 9774
 <211> 395
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-039-Q1-K1-F6

<400> 9774

ctctgcgctg agcacaatgt tcacctgggc actgttctctg ccgcgaagac tcttggcgag 60
 tgggccgggc tttgcaagat tgactctgag ggcaaggcaa ggaaggttgt aggctgctcc 120
 tgtgtcgtcg tcaaggacta cggatgaagaa tctgagggcc ttaacatagt gcaggagtat 180
 gtcaagtcgc actagatgtg tgacatgttt cagtatact cttgatttgg acctgggctt 240
 aaaattatgc ttttgcattt ggggcttgcc taagagatta gaacatttta ctagaagagc 300
 cgaagaggat atgtatgaac aatttggaca tctgaatttt ttttgtttat ggtgctgtcg 360
 tctggttnta atgcaaatca tgaagagccg agttt 395

<210> 9775
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-F7

<400> 9775

cgttctggtc gtgtgcctgg ctatgtcatc tgtcagcgcg tctgcaatgc agatgccgtg 60
cccctgctcg ttgctgcaag tcttgttctg cgctagcgcc ggcctgacga cgattatggg 120
cgctgctgg ctgtacactt acgcgaggta cctgaggcag tcgaaatata gcacgatggc 180
ggcgactcca tactactccg tgtgagggca gactaacgct atgtaccagg cgctgcggtg 240
acagtgtctg catcagcaga tgaggatgat ggacgtacaa tacgtttcgc atcagctaga 300
gatgaagatt cagcttgagc gtgccgctga cgtcagcatc agcctgtact agccactgtt 360
gatgcatcat cagcagcatc tgatggcagc tcatgtcttt aaccccatgg ccatgatgat 420

<210> 9776
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-G11

<400> 9776

atttgtgttt cctcatgatg tttgggaatg ggataggggg ttggcagctg gtgagtttag 60
gctgtttttt ccagcctgt tttgacactg attactgtat acttgaactg cggttttgaa 120
atgctccagc tgtaggttc aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa caaatataa aaaaaaaca aataaatttg caataaaac 240
aacattataa aaaataaata aaaaaaaaaa aggggcgccc tttttaagg ttcc 294

<210> 9777
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-G2

<400> 9777

tatgatctta agcagattga gttacaattc attcaccaag caatctacaa caggggttcgg 60
 tccataatcc aagaggagca acaacaacaa ccatgtgagt tatgtggatc tcaacaagct 120
 actcaaagtg cgggtggcaat cttgacagca gcacaatacc taccatcaat gtgcggttg 180
 taccactcat actacaaaaa taatccatgc accatcaatg acattagtcg tgtttgcaat 240
 tgaagaattg tgtctaccta accgttatac ttctataacg gtgttaagca ataaagtacc 300
 atacatt 307

<210> 9778
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-G3

<400> 9778

cggacgcgtg ggcggacgcg tgggcgggtcg cgtgggcaac tagcaacata gaaagcacga 60
 tagtgtacca acaatggcag ccaaaatatt ttgcttcctt atgctccttg gtctttctgc 120
 aagtgttgct accgcaacca ttttcccaca atgctcacia gctcctatag cttcccttct 180
 tccccatac ctctcaccag cgggtgtcttc aatgtgtgaa aaccaattg ttcaacccta 240
 caggatccaa caggcaatcg caacaggcat cttaccatta tcacccttgt tcctccaaca 300
 accgtcagcc ctattacagc agttacctt ggtccatttg gtggcacaaa acatcagggc 360
 acaacatctt caacaacttg tgctagcaaa ccttgctgca tactctcagc aacatcag 418

<210> 9779
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-E6

<400> 9779

caatagtgtg ccaacaatgg cagccaaaat attttgcttc cttatgctcc ttggtctgtc 60
 tgcaagtgtc gctaccgca ccattttccc gcaatgtca caagctccta tagcttcctt 120
 tcttcccccg tacctctcac cagcgggtgc ttcggtatgt gaaaacccaa ttcttcaacc 180
 ctataggatc caacaggcaa tcgcagctgg catcttacct ttatcacctt tgttcctcca 240

acaatcatca gccctattac agcagttacc ttgtgtgcat ttattggcac aaaacatcag 300
ggcacaacaa ctacaacaac ttgtgctagc aaaccttgct gcctactctc agcaacagca 360
gtttcttcca ttcaaccaac tagctgcatt gaactctgct gcttatttgc aacaacaact 420
acca 424

<210> 9780
<211> 243
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-039-Q1-K1-D10
<400> 9780

cggaacgctg tgctgacgcc ttggcggtac gcttggtgaa gaaacagaca ctgcaactag 60
ggccaaataa ctaccaccgc gtttagccgg ctccgctgac accgacgaaa ctgccctctg 120
tctacaggat gcacaattac aaggccatga aggcccacga gctggtctgc catgagtgc 180
gaagtggaag gaagtggacg tcgttgaaca ccgtgaaggc gagatacaca ttaggaccac 240
cga 243

<210> 9781
<211> 87
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-039-Q1-K1-D3
<400> 9781

gggctggaaa gctgcctttt gttgtttcac taagatgaag gttgtatgat ctctgtcgg 60
tcgtagtgga agttgttaca ccagatg 87

<210> 9782
<211> 405
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-039-Q1-K1-D4
<400> 9782

cccacgcgtc cgcggacgcg tgggttttga agagaatcca acggaccttg atttgctgaa 60

acacgataag ttgctatgca acatggaaat tcttgcatatc ctgcgtgatg tccctgacta 120
cctaattgat ccgaaaacaa aagaagccaa caatgctgtc aagctttcca aggctgctat 180
gcatatcgac aagccccaaa agcggaaaaa gcaagggttt aagggaagat caaggaaaag 240
cagagaccct ctcaagacat tctctgctga aggcaaacta aggaaacgga agaaagaaaag 300
ggaaggagaa ccaaatagaa gaaagaagag taagagggcg gaagttgatt tttcaagcag 360
tttgctatca agctcgccca atttgtaggc tttcttgttt gaagc 405

<210> 9783
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-D5

<400> 9783

tcccgctcga cccactctct ctcccatcgt cctcttacgc ttttcttctc gtgtgctgca 60
ttattacaca tgtacagcgt acatggattg atagaggagt cagactacac acattatcat 120
gtacattctt accaataata tatgcatgat cataataaac ttttagtttt aatgaatcaa 180
tataaacaac taatatcttc actcttaaaa ttaataacaa tcttcactat aattcttatt 240
tatatatata actattttaa agcaaataat ttttttaaca attatattat aaatactttc 300
actttaatat 310

<210> 9784
<211> 376
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-039-Q1-K1-D6

<400> 9784

cccacgcgtc cggggggttcg gttggtgctg aatatgttgt tgagtctact ggtgtttgca 60
ctgaccagga gaaggctgca gctcacttga aggggtggtgc caagaagggt gtcactctctg 120
ctcctagcaa ggatgcccc atgtttgtcg ttggtgtcaa cgagaaggag tacaagtctg 180
acattaacat tgtctccaat gctagctgca caaccaactg ccttgctcct cttgctaaag 240

tcacatga caagttcggg atcgttgagg gtctgatgac cactgtccat gccatcactg 300
ctaccagaa gactgttgat gggccctcat ctaaggactg ganggggtgga agggctgcta 360
gtttcaacat cattcc 376

<210> 9785
<211> 138
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-D7

<400> 9785

gcaatacgtc taatcagtca tcattatacg atggtttata cggatatatat acgactgcgt 60
tggtagcaag ctgaaagatt actttgtatc gtactatattt aattatattt tgtggagata 120
aagaaattat tatgagct 138

<210> 9786
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-039-Q1-K1-D8

<400> 9786

agcgaagcac attagcaaca acctaacaac aatgggtacc aagatattat ccctccttgc 60
gcttcttgcg ctttttgcca gcgcaacaaa tgcgttcatt attccacaat gctcacttgc 120
tccaagttcc attattacac agttcctccc accagttact tcaatgggct tcgaacaccc 180
agctgtgcaa gcctataggc tacaacaagc aattgcggcg agcgtcttac aacaaccaat 240
ttcccagttg caacaacaat ccttggcaca tctaacaata caaaccatcg caacgcaaca 300
gcaacaacaa ttctaccag cactgagcca cctagccatg gtgaaccctg ccgnctactt 360
gcaacagcag ttgcttgcac caaaccact tgctctggca aacgtagttg caaaccagcc 420
acaacaaca 429

<210> 9787
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-E10

<400> 9787

cacgatatgg tcttgaagtt ggtctgacca actatgcagc tgcctactgc actggccttc 60
tgttggctcg ccgtgtgctc aagaccctg gtttagataa ggaatatgag ggcaatgttg 120
aggccactgg tgaggatttc tctgttgagc cagctgatga gaggaggcct ttccgtgctc 180
tcttgatgt tggccttatt aggactacga ctgggaaccg tgtctttggt gccctcaagg 240
gagctttgga tgggtggcctg gatattcctc acagcgagaa gaggtttgct ggtttcaaga 300
aggatgacaa gcagctggat gctgatatcc atcgcaagta catctatggt ggccatgttg 360
ctgactacat ga 372

<210> 9788

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-E12

<400> 9788

gcaaggagga cctgcggtgg tgcaagcagg cgtgcgagtg gcagtacgga aaggacacgc 60
cgcggaagag ggaatgcgag agcgagtgcc gcgagcggca ccagcaagct gacgcgggcg 120
aggacggcga cagcggcgctg gacgcctacg tctcccgctc cgggaggggc gagtgccggc 180
gccagtgcct gcgccgtcac gagggccagc cgtgggagac ccaggagtgc at 232

<210> 9789

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-E2

<400> 9789

gttcacgcgt tcaaagatgc gtggggaaaa caacatagtc ctcttctcc tctcctgtg 60
tgctgtaatt tctccgaacc aagtaattgg tagtgcttgt actccggaac agaaggctgc 120
catcctaaat caatgcgaag agtacatcaa gcctggatac ccccttatac tgccatcgta 180
cgccagtgtg tgttgcgaca aggtgagaga tgtgccaaat agggacatga actgcatcgt 240

cgatctgctc acgcctccaa aaaaagcgaa acacggtgctc gacaagataa aacgtctgaa 300
 agatctctgc gacaacttcg ctcatcatca gacagacagc aactgtcatt gctaattgaa 360
 gttcgaggca agatatatgg tctagtaaataa aaagtcgctc atcaaagcat gacaactgctc 420
 aaatgtatct ttg 433

<210> 9790
 <211> 373
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-039-Q1-K1-E3
 <400> 9790

cccacgcgctc cggaggacga cgctgcggcg getgcgctca gggtcagcaa ggcgaccgctc 60
 aacgttgaca ccggcgacag cgccgacgag gccgtcgccg aagctgctgc tgaggagaaa 120
 gagaaggagg aagtccagcc gaagcccgct gacggttccg gctccggctc cggtccggc 180
 ggccggcgag ccaagccggt gtgctacgag acgagccgctc gttccgacac ctgcgaggcg 240
 gctggcgacg tgcgcgtcct tgggagcacc cagacggtgt acgtggactc gctggaccgg 300
 gagtggaaga ccaagccgta ctgtcggaag cagcacaact tcgcgctcgc ccacgtcaag 360
 gagtgggtccc tga 373

<210> 9791
 <211> 276
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-039-Q1-K1-C9
 <400> 9791

aacaaatgca ttcattattc cacaatgctc acttgctcct agtaccatta ttccacatat 60
 cctacctcca gatactccaa tgcgcttcta aactcatat atgcaatcct ataagctaca 120
 acaatctctc acttctatcg tcttacaaca accaattttc catttacaac aacaatccta 180
 tatacatcta accatacaaa ccatagtatc taactatctt aacaactcat tcaacaaaac 240
 atgataaacc ctatataccta ctttcaacaa cagatt 276

<210> 9792
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-E5

<400> 9792

aaagcattgt gaagccccggg tgctcgcagg atgtccttaa agcagcggta agcgccatgg 60
cttctgtgac ggagatgttg accatcatgt cttccctttc atttagtgga caggcgacca 120
tctgaaggcc aagctgaaga tgtcatatgc tgttgcgctg tcatgtcccg aacatatttg 180
tgtttttttg ggaaagaaac atacaatttt ttgttctcat tctagtatcg tctacctatg 240
tcaaactaca atatgatagg acccttgcta aataattgtt tcgtttgctg gtattttctca 300
tctttgatgc taggcatgtt ggaaagttaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360
aataaaaata aaa 373

<210> 9793
<211> 264
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-B4

<400> 9793

gtgtctctga ccattgggac atgatgggct cagatccttt ggaggccggc tcccagggtg 60
ctcagctggt gctggatatc cgcaagagga agggctctcaa ggaacagatg acccctcttt 120
ctgagtttga ggacaagctc taaaattttt ggctgttggt gatactgttt catctgccgg 180
tttaatcatc aattcgtcta ctgtaatagc agcgacttca atattttatt ttgttttagt 240
tgtcaaatgc acctgttttt gaac 264

<210> 9794
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-B5

<400> 9794

cgcaaattgc accaagaaat ccacgagag gccgtcgaca ggggaattaa tggcgtcgtg 60

gtctagcagc agccaccgcc gcctcatcct cgcagccgcc gtectgctct ccgtgctcgc 120
 ggctgccagc gccagcgccg ggacctcctg cgtgccgggg tgggccatcc cgcacaaccc 180
 gctcccgagc tgccgctggt acgtgaccag ccggacctgc ggcacgggc cgcgcctccc 240
 gtggccggag ctgaagagga gatgctgccg ggagctggcg gacatcccgg cgtactgccg 300
 gtgcacggcg ctgagcatcc tcatggacgg cgcgatcccg ccggggcccg acgcgcagct 360
 ggagggccgt ctagaggacc tgccgggctg cccgcg 396

<210> 9795
 <211> 380
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-B6

<400> 9795

cggacgcgtg ggtttttttt tttttttttt tttgaaataa ctgtgagttg tggattatgt 60
 aaaaaaata tcttgtcgcg tcttgtttta agaagacaac caaatgtgaa ccatacatgt 120
 gtgtcaggat aaatttctct ctctctctct ctctcataag ccctgtcatg ttctgtattg 180
 caactttgtg ccatcaatga cgatgcaggg agtagattta acatcagaga tgggataaca 240
 tgttgtcata ctctagtctg caaacatcaa gtctataccg tttgattcct gaaagtggct 300
 gcaccattt tctcagagta catcgcaggc attttctttt cgcattttcc gctcttcaac 360
 cactgcttca accgagtctg 380

<210> 9796
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-B7

<400> 9796

cagttgttca accctacagg atccaactgg caatcgcaac aggcatctta cgattatgac 60
 ccttgttcct ccaacaaccg tcagccctat tacagcagtt acctttggtc catttggtgg 120
 cacaaaacat cagggcacia caactacaac aacttggtgt agcaaacctt gctgcatact 180
 ctcagcaaca tcagtttctt ccattcaacc aactgggtgc attgaactct gctgcttatt 240

tgcaacaaca attaccattc agccagctag ttgctgccta cccccagcaa tttcttccat 300
tcaaccaact agcagcattg aactctgctg cttatttaca gcagcaacaa ctactaccat 360
tcagccagct agctgatgtg agccctgctg cttctctgac acaacaacag ttgttgccgt 420
tctacctgca cgc 433

<210> 9797
<211> 419
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3059-039-Q1-K1-B9
<400> 9797

gaaggattcc tcgccaaggt accgattctg aatggccatg tctactccat aaatgacaat 60
gccacagtgg aggatgcagc aacagactat gaattcatga tcaggcagct ggtaagggtc 120
cgcacaatag gagtctcaga gagaaacgac tgtcccaagt tcgatctcat cttctcacc 180
atgggctccg atgggcatgt ggcctcgctt ttcccgaacc accctgccat ggagctgaaa 240
gacgaactggg tcacctacat caccgactct ccgcagcctc ctctgagag gatcaccttc 300
actctcccag tgatcaactc agcatccaac atagcaatag tgtccactgg tgatgacaaa 360
gcaaaggctg ttcacatagc agtttctgac atggcncgaa gtcttgatgc tcctacatc 419

<210> 9798
<211> 409
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-039-Q1-K1-C10
<400> 9798

cccacgcgtc cgagaagaca tcggctttca ggcggcctcc aatcttgatc gtcacgggg 60
acccaacctg tgatcccaag tctctacagc atgctctggg aaaggagcc atagagtatg 120
aagagtttct gaaaaccggt gaccggagt tcagttggaa gccaccgaag gacgagtggc 180
agagcatcgc cctaggctac acttctggga ctacttccag cccaaagggc gtcgtgttgc 240
atcaccgcgg tgcttatctc atggcactca gcgttgccat cgtgtggggg atgcctgaag 300

gggctgtcta cttgtggact ctgcccattgt tccattgcaa tggttgggtgc tacactaggg 360
cgctggcagc gttctgcgga acaagcatat gtcttcgcca ggtgagcac 409

<210> 9799
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-C11

<400> 9799

gtaacattta cggggaactt caatgagtat tttggctttg ccaccgatgt agatgcaggg 60
gtttacttga tgctggtaaa tgatctaatt catggacttt atcctgaggc tgtaaccatt 120
ggggaagatg ttagtggaat gcctacattt gcccttcctg ttcacgatgg tggggtaggt 180

tttgactatc ggatgcatat ggctgtggct gacaaatgga ttgaccttct caagcaaagt 240
gatgaaactt ggaagatggg tgatattgtg cacacactta caaataagat gtgggtagag 300
aagtgtgtaa cttatgccta aaggcatgat ccagcattaa tcggccacca gacttatgcc 360
gtttgggtga ttgaccagga tatgtatgat ttcat 395

<210> 9800
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-C12

<400> 9800

gagaccaact agcaacatag aaagcacaat agtgtaccaa caatggcagc caaaatatgg 60
ggcttcttta tgctccttgg tctttctgca agtgttgcta ccgcaaccat tttcccacaa 120
tgctcacaag ctcttatagc ttcccttctt ccccatacc tctcaccagc ggtgtcttca 180
gtgtgtgaaa acccaattgt tcaaccctac aggatccaac aggcaatcgc aacaggcatc 240
ttaccattat cacccttggt cctccaacaa ccgtcagccc tattacaaga gttacctttg 300
gtccatttgg tggcacaaaa catcagggca caacaactac aacaacttgt gctagcaaac 360
cttgcttgat actctcaagc acatcagttt ctt 393

<210> 9801

<211> 345
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-039-Q1-K1-C2

 <400> 9801

 gcatgggtccc agtcaaccct caggcaaccc ggtgttaagg gacgcgctgg ctcttgagc 60
 tcctgcgtcc atgagagggtc actctgcagt ccgacatgac cgtggcctac tcgcaggaca 120
 caccctagat cgagctactc accctagacg agcagactca caacatgtac cagtgtgaga 180
 ctatctgcct caccaatcac ttacatcaga cctgtgcaa gcaccgtccc aagttcacac 240
 tgatgcacgc actgctcctg gatcatcagc cggagctcgt tgatgaagac cctcttatgg 300
 acctctagaa catggacgtg cacaacgatg actaagcaat ttcag 345

<210> 9802
 <211> 331
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-039-Q1-K1-C3

 <400> 9802

 ctctcgcac caggacacag ggtaccatga ttgcttctga gggctctgaag cacagaggggt 60
 ttgaggtttg cctagctgat cttcagggcg acgaggatca agcttacagg aaaatcaggc 120
 tccgtgctga agatgtgcag ggcaggaatg tgctcacaaa cttttggggc atggattnta 180
 ccaactgataa actcagatcc ctagtgaaga agtggcagac attaatcgaa gcccatgttg 240
 atgtcaagac aaccgacaac tacatgttgc gtctgatctg catcggcttc accaagaggc 300
 gcccaaacca agtcaagaga acctgctatg c 331

<210> 9803
 <211> 185
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-039-Q1-K1-C5

 <400> 9803

 tctgactcgt gggcggacgc ttttgtgctc tccttgcttt cacacttggt gtggagcaga 60

tgatttgctg ctgcaacaag atggatgcta ctacacccaa gtattcaaag gcccggtatg 120
 atgagattgt gaaggaagtc tcttcctacc tgaataatgc tggatacaac cctgatcaga 180
 tctac 185

<210> 9804
 <211> 367
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-039-Q1-K1-C6
 <400> 9804

gacgagtcca ttgttaactg aaaacattat caactttctc taagcgtcac aagccctgcc 60
 atggaaagaa acggtcaagc ttttcctcac ttgtccacct ttcttctgtg gaccacacaa 120
 tcaaacagct ctctgaacc atgatgttcg aacagcttgc cggatgtggc gctcgttctt 180
 ctgcaacagt tcatcgacct tgtgcgactg ggacaacaaa aggcccgagt actcgacctt 240
 ctctttcttga ccatgaccgg ccttgaagcc attcttcgat gaaaaaatac ccccaaagaa 300
 catggcggttc gaaaagtatt gggaatggta agtgtcgcaa gaatcgaacg aatctgggcg 360
 ctctaac 367

<210> 9805
 <211> 317
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-039-Q1-K1-C7
 <400> 9805

cggattcccg gtcgaccacg cgttcgccag cgtccggtcg gttcactttc caggtaagga 60
 agggttcgtc tgggtggcgcc gccgcagcca aagtcggggc tcttcgttgg catcaacaag 120
 ggtcatgtcg tcaccaagcg cgagctgcct acccgcccggt gccaccgcaa ggggaaatca 180
 acgaagaggg tgtctatggt caggggcctg atcagagagg ttgctggggt tgctccttat 240
 gagaagcgta tcaactgagct tctgaagggt ggcaaggaca agcgtgccct gaagcttgct 300
 aagagaaagc ttggaac 317

<210> 9806
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-039-Q1-K1-C8

 <400> 9806

 cagaaacaca cctagcgaag cgcactatca acgacctaac aacaatggct tggaagagat 60
 tatccctcct tgcgcttctt gccctttttg tgagtgaac aaatgcgttc attattccac 120
 aatgctcact tgctccgagt gccattattc cacagttcct ccctccagtt acttcaatgg 180
 gcttcgaaca cccagctgtg caagcctata ggctacaaca agcgcttgcg gcgagcgtct 240
 tagaacaacc aattgccc aa ttacaacaac aatccttggc acatctaacc atacaaacca 300
 tgcgaacgca gcagcaacaa gcactgagcc acctagccgt ggtgaaccct atcgctact 360
 tgcaacaaca gctgcttgca tccaaccac ttgctttggc aaacgtagct gcttaccaac 420
 aa 422

<210> 9807
 <211> 349
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-039-Q1-K1-B3

 <400> 9807

 gcgagacaca tcctggtagt tgggagaccc cgtctgaagg gaccgagtga agagcagggg 60
 cccgtgtgca tctgagaagc cgcagatgat ctcttagttc agatgctgtt atcatgaacc 120
 caagattcat ggaacgctcc caatcccatg catgtcagcg cccaacacac agggaagagg 180
 ccaggctacc aggtttatca gaagctgttt caataaccgg agaatttttt ttccatgcca 240
 atgcacactg tacagaggtg atgctggacg aatcgagctg gagccttggtg tccggtgccg 300
 agaagcccga gacgatgtcg ctttgagctt actctaactg gttcggact 349

<210> 9808
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-038-Q1-K1-H8

<400> 9808

tggaagagga taaacttgag ctcgcaactt ctcttattga gaaggcgaag gcaaaggggg 60
tttctctttt gcttcccact gatattgtag tagcggacaa gtttgcagct gatgctgaga 120
gcaagattgt ccctgccact gctatccctg atgactggat gggctctgat gttggccctg 180
atgccaccaa aacattcaac gaagcattgg acaccaccaa gactgttatt tggaacggcc 240
ccatgggagt gtttgagttc gagaagtttg cagctggcac tgaggcgatt gccaagaagc 300
tagctgagct tacaaccacg aagggtgtca ctaccatcat cggcggcggc gattctgtcg 360
ctgctgtcga gaaggctggg ctggccgaca agatg 395

<210> 9809

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-H9

<400> 9809

cccacgcgtt cggctggtgg tggccagctg ggttttggag gtcgctgccc tgatgaagtg 60
tattgatgct agcaccatcc ctagagttgt cacttttgac aagaaccctg acaaccaccc 120
atacctcatg aaattcttcc aaagctcagc cccaaggct atgctgttct tgaacttctc 180
caccggacct tttgattctt tcaagtctgc ctactctgct gccgcggagg aattcaagga 240
cacggaaatc aagttcctta ttggtgacat cgaagccagc catggtgcct tccagtactt 300
tggcctgaaa gaggaccaga cacccttat actcatccag gatggtgact ccaagaagct 360
cttgaagggtt cacgttgagg ctgaccagat cgtcgctagg ttgaaggagt actttgatgg 420
ca 422

<210> 9810

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-A10

<400> 9810

cggacgcgtg ggtctcgaga cgagaaggct gcagctgtcg gtatcctgag caacctccgc 60

acgacagaca agaaggcaac tgagattctg atgcgggcaa acttgctccc tattctgac 120
accttgtttg aggcaaacat ggccgctgcc gtgacacctc aaagaatgtg gttgcttgag 180
ggcatcgctg gtgtctttat ccggttcaca gtcacctggg acaggaagct gcagagttca 240
gcagttggac acggtgtggt tccttgccct gagaagttgc tttcacaagg atcgggtggac 300
gccaaagtcta aagcggcaac atccttggcc caactgtcac agagcacgat ggcgctgcgc 360
aagtcagaaa cgccaagggtg gtctgcgttc ttcacggcc gaatctact 409

<210> 9811
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-A12

<400> 9811
cccacgcgtc cgccacgcg tccgagctgc gcaggcccat ctcgctgggc gacccgtcgc 60
tgacggcgtc ggcgcagggtg acgctggcct cccgcaacct caacgaccgc gtgggcatct 120
tctacaagcg cctggacgtg ttcgtcacct accgcgacga ggccgtgacg gtgcccgtgt 180
ctctgccgcc gcagtaccag ggccaccgcg acttcaccgt ctggtcccc gtgctgtcgg 240
ccgagtcctg gcccgttgcc gcctacgtcg ccgacgccat gaagcaggac gtcgccgcgg 300
gcttcgtcgc gctgcagggtc aaggtggacg gccgcgtcaa gtggaaagtc ggcagctggg 360
tctccggcag ctaccacctc ttcgtcagct gcccgcctgt gctctccgcg ggctacccc 419

<210> 9812
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-A6

<400> 9812
gccccgtgat gcttttcaaa ggatggaaac gactgatcca ggacatgatt gggagagaag 60
ggccctttct ggagactgct tgtgtgccat ttgctggtct tgctattctt ctttggccat 120
ttgctgtagt aggagccgtt ctggcatcca tactctccag tgccccctta ggtgcttatg 180
ctgcagttgt agcttatcag gaatcctccc ttatcctggg aattgcctat gtgttctcgt 240

cagtgtctat atttgatgaa tacacaaatg atgttcttga catggcgcct ggttcttgtt 300
 ttccaagatt taaatatcgg aaggggcaaag atgagtcttc acacggggcac agtgttccat 360
 tatccagacc agcctcattc aacagggaga agcaaga 397

<210> 9813
 <211> 409
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-039-Q1-K1-A8
 <400> 9813

ccggctctag ccactcgtcc ttgcacatat aaagcacaat attttacctt caatggcagc 60
 caaaatattt tgcgtccttg tgcctcgggg actgtctgca accgctgcta ccgtgaccat 120
 tttaccacaa tgctcacaag cttctatagc ttaccttctt ccccatacc tctcatcatc 180
 ggtgtcttca gtatgtgaaa acccaattct tcaaccctac aggatccaac acgcaatctc 240
 atcattcatt atacctttat cacccttgat ctttcaacaa cttcatccc tattacagca 300
 cttacctttg atgcatttga tggcacaaaa catcaagaca caacaactac aacaacttgt 360
 gctatcaaac cttactgcct actctcataa caatcaaata attcaatta 409

<210> 9814
 <211> 400
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-039-Q1-K1-A9
 <400> 9814

cggacgcgtg ggccggctac gaccagctgc tccgcgcgt ccaggacaag tggttctcgc 60
 acttcacat caggaagttc gccgacgacg agaggaagct ggtggacgcg gtgaacggga 120
 cggagtacgt acccagctac gaggacaagg atggcgactg gatgctcgtc ggcgacgtcc 180
 cctggaagat gttcgtggaa acctgccagc gccttcgtct gatgaaaggt tcagaggccg 240
 tgaacttggc accaagagcc gnccgatgag gcacactccg ttgggcgttg gcacgcacgc 300
 acgcactggc gtcttgaagg aaagggggac tctgctggct tgatgaggat cttcacgtga 360

gataggaacg tgtgtacagt tgtcgcctta tggtattgag

400

<210> 9815
<211> 373
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-039-Q1-K1-B1

<400> 9815

ccgactcgtc cgcacgtctc ccagatctaa ctgccccccg actcacgaat cccaaagggt 60
ccatggcgac gcaccgccac tgccctccac tctctctct cgtggccgcc gccctcgccg 120
ccgtccctgc tcgcgcggcg ctggggcgcg ggcgcggccc gctgctgggc ggggtggaacc 180
cgatccctga cgtgagcgac tcgcacatcc aggagctagg cgggtgggcg ctggggcagg 240
cgaagcacca gaagctggcc gacgacgggc tgcggttccg ccgcgtggtg cgcggcgagc 300
agcaggtcgt gtccgggatg aactaccgnc tctacgtcga cgccgtcgac cccggcggcc 360
gtaccgtgcc cta 373

<210> 9816
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-B10

<400> 9816

cccgacgcgt ccgggctgcg gctgccagcc accggcgccg gttcatctac cgccggcggg 60
gcatctgcca cctgcggctc acctgccacc tgcggtgcat atcccaccgc cgggtccacct 120
gccgacgccg gtccacctgc caccgacggt ccatgtgccg tcgccggttc atctgccgac 180
gacaccatgc cactacccta ctcaaccgct ccggcctcag cctcatgccc agccacaccc 240
atgcccgtgc caacagccgc atacaagctc gtgccagctg catggaacct gcgagcggtg 300
gcagtactcc cgatcctgag ccagtgcgtc gagtttctga tgcattcacag cagtcagacc 360
gcgacgcctt actgctagac tc 382

<210> 9817
<211> 196

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-B11

<400> 9817

cccacgcgtc cggaaggatg tgttattaaa aactgcaaga taaaccattc tgtagttgga 60
 ctccgatctt gcatatctga aggtgctatc atagaggaca gtttactaat ggggtcggac 120
 tactatgaga cagaagctga taaaaaactc cttgccgaaa aaagtggcat tcctatgggt 180
 attgggaaaa atcatg 196

<210> 9818
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-B12

<400> 9818

gcggcacttc cggaaggatg tgttatttta aactgcaaga taaaccattc tgtagttggg 60
 ctccgatctt gcatatctga aggtgctatc atagaggaca gtttactaat ggggtcggac 120
 tactatgaga cagaagctga taaaaaactc cttgccgaaa aaggtggcat tcctattggt 180
 attgggaaaa attcatgcat caggagagca atcattgaca agaatgctcg aattggagac 240
 aatgttaaga tactcaatgc tgacaatgtt caagaagctg caatggagac agacgggtac 300
 ttcatcaaag gtggaattgt cacagtgatc aaggatgctt tactccctag tggaacagtt 360
 atatgaagtg aacgtgacgac atgcaactgt gtgtctcgac attcgacaat gatcag 416

<210> 9819
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-B2

<400> 9819

ccgacgagta gagctctcca ctcaaaccat cctaagcctc tactgtctca gttggggcgt 60
 cgagcacaag gcccttggtg ggctttgccg gcaggtcggg gtactgctgg aacggggcca 120
 ttgagaactt ggtctgactc cagaattcag gagtgaggaa gccgtaggtc ttcatcaggc 180

agtcgaaggt tgccttgacg aagttgccaa gggctcttagt ggagccacgg gacgaggtga 240
agacatcctc aatgccagcg aactgcagca ccttcttggg cagcgcgcg gcgacgatgc 300
cagaaccctt gggcgcggtt accatgcgca cggtagcgga gccacacttg ccagtgcact 360
tgcaaggcac ggtgtgcggc tgtccgatct t 391

<210> 9820
<211> 441
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3059-038-Q1-K1-H7
<400> 9820

cccacgcgtc cgggccagga ccaggataaa ggaaaaggaa gccagctct ctctagcctg 60
gagccgagaa gccgagggg cgaaggagca gcaaggcatg gaggagcccg ttccggctga 120
tccccccagg attttctgga agtcaaggag ttcaggttca ggaccgtgag atcaatgggc 180
tgaacgagca gctagaggaa gactcccgcg tgctggagct tctgcagaag cagctggctg 240
acgagcgag gaagcggaca gagatcgaga aggagaactc catgctccat gagcagggtca 300
ccatgctgat gaacatgctc gacgagaacg aggggttcga cgaggacgga gaggccccgc 360
cgcccgattc cttcgattaa gcgttggtac agtactatan tccgtttctt tttcccgta 420
gtgtgaaatc atacgtctct a 441

<210> 9821
<211> 312
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-038-Q1-K1-F8
<400> 9821

agaacactta cgtcaccgag taacgggtga cattgccttc atggctagaa ctgttggtgg 60
catcacactc cttaacgact tgtgctagcc atctacttgc tagtcgcaat gaatgttatc 120
gattgtgcac acagcgtgag accaatccag ctgctttgtg taactatagg agaccaagtg 180
atcattccac ctaccgtgta atccagataa tgcgtacatc gtatcatgac tttgagatgg 240

tgccctagat atgatgatat actgcgatgt cagcgactgc acaacttatg taatcaatat 300
agcaaggatt ag 312

<210> 9822
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-G1

<400> 9822

ctccgattat tcgaaatttc tcagagaaca agaaatattc ttaatgaatg gactgaagac 60
tgtcaacata actggaaatg gctatctaga gcagagattg cagcctggat tgagtgggtt 120
acagtctatg ggttattcat ctcagatacc tattcaacct ggtggtacca ctgcaaacct 180

gatgcataat catgtcaaaa ttactggaga gactgtcccc tctacacttg attcagttgt 240
accttcaata gcaccatcag gtggcatgcc aatcaaactt acagaagcac cactaactgc 300
ttcgaagaag aacctgtta gtcgtccatc aaagcctgtt ggaccacctt caggatttaa 360
tcatgtaacc ccaaagcgtc aagatgattc tattccggtt gaaaaact 408

<210> 9823
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-G10

<400> 9823

cagacagagt gaaagaagag actgaaagac tcgatagtct ttattaggaa gatttagaga 60
tggacgatga tgagcggat aaccgaaaac tcgaagctgg gctttacaca ctgcagttaa 120
ttgcgcttat tctgggacac atatggcact ctgggaattc ccagatgaga gcaagagtag 180
aattacttct taagcagaac atacttaca agcaagatgt gaagagcata cttgaggagt 240
accatgacaa cattggagat ttggatggac ctgaagagaa ggatagagca caagtgctga 300
ccatggaaat tattgacgcg tcgtgatgtg catgggccta gggtagttgg ttgtggagca 360
agacagaggc tggtagatat tttagatg ttgagtgaat ttatatgcac agtcagc 417

<210> 9824

<211> 180
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-G12

<400> 9824

gtgggacctg agcgtaattg gaaccgctag cccttttcgg cctccttccc ggccgaacag 60
cctcgacagc ccgaaacctt ggccgccgat cggtttcgga gaagagaacc aaatcaggat 120
gtttctcggg tctgtcccg cggggcccgac caaggaggct gcttacaagc agctgcgggc 180

<210> 9825
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-G3

<400> 9825

cacgcgtacg cgggcacgtt tctagatcta gaacgctatc gtttgatctc atagatccaa 60
gcctgcgtgc tggggccagc gatgtcatag gtcttctata gcgtcaactg cattcaatat 120
agtggccgtc acagtacatc gtcgatactg ctaaaacact tatactaccc aactgaacca 180
ccttgacca catgcatatt tatgcagctg gcaactatagc gactaggccc tctccactcg 240
atcttcccaa cacttgaaca gcctcaatag ctaatgtgac gcgcactctt acagaacctt 300
cagcaactgc ttcgaagaag atccctgcaa cgtgaccatt acactctgca gcacat 357

<210> 9826
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-G6

<400> 9826

ctgagatcct cggttgatggc cctcatgaca ttgatcgtg cgcttacgtc actgagaccg 60
tccttgctgc ctgctacaag gcgtcaacg agcaccatgt cctcctggag ggtaccctcc 120
tgaagcccaa catggtgact ccaggctccg actccaagaa ggtgactcct gaggtgattg 180
ctgagtacac cgtccgtacc ctccagagga ccgtccctgc tgetgtgcct gctgttgtct 240

tcctctctgg tggacagagc gaggaggagg ccacccgcaa cctcaatgcc atgaacaagc 300
 tcagcaccaa gaagccgtgg tccctgtctt tctccttcag ccgtgccctc caagcgagca 360
 ccctcaaggc ctgggctggc aagggtggaga acttgagaa ggctagagct ggcttcctcg 420
 ccaggtgca 429

<210> 9827
 <211> 438
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-038-Q1-K1-G7
 <400> 9827

gattactacc acaaagaagg gttctattac atctgttcaa gctatttatg tgcttgctga 60

tgacttgaca gatcctgctc ctgctaccac ctttgcccat cttgatgcta ctactgtggt 120
 gtcacgtcag atttctgagc ttggtattta ccctgccgtg gatcctctgg attccacatc 180
 cagaatgttg tccccccatg ttctgggtga ggaccactac aacactgctc gtgggtgttca 240
 gaaggttctt cagaattaca agaatctcca agatattatt gccattctgg gaatggatga 300
 gctcagtga gatgacaagt tgacagttgc tcgtgctagg aagattcagc ggttccttag 360
 ccagcctttc catgttgctg aagttttcac ggggtgcacct ggaaagtacg ttgagctgaa 420
 cgagagcggt aaaagttt 438

<210> 9828
 <211> 439
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-038-Q1-K1-G8
 <400> 9828

cccacgcgtc cgcccacgcg tccgcgtctg tgctaccgcc gccgcgcgcg caagactgcg 60
 tcgggcactt tgccggcgac gatttccac cagctatttc tactcggatc cgatctatct 120
 acaagcccaa caggatcaga ggaggtgatg gcgaggagt acagctgcct ggcgcgcggtg 180
 ggtgccggaa ttgctatcgg tggcgcggtc ggcggagccg tcggtgcttg ctatggaact 240
 tttgaggcgt tcagatacaa gatccctgga ttgctaaaga tcagatacat tgggcaaacc 300

accgttggca gcgctgcgat ttttgggctt ttcttggggg ctgggagctt gattcactgt 360
 ggaaaatcct actagtttgt ttcccttttt ttttctgaag tctgaacaca cttttgtcga 420
 tgggcttcag tgaaaacta 439

<210> 9829
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-038-Q1-K1-G9
 <400> 9829

cggattcccc gtcgacccag cgtcgcgacc tgggtagctt tggcaccgca taggctacca 60
 tatccaggca cgtgtcacca ctactgatgc cattggctac catgaacca tggatgcagt 120
 actgcatgaa gcaacagggg gttgccaaact tgtagcgtg gccgaccctg atgctgcagc 180
 aactgttggc ctcaccgctt cagcagtgcc agatgccaat gatgatgccg ggtatgatgc 240
 caccgatgac gatgatgccg atgccgagta tgatgccatc gatgatggtg ccgactatga 300
 tgtcaccaat gacgatggct agtatgatgc cgccgatgat gatgccaagc atgatttcac 360
 caatgacgat gccgagtatg atgccttcga tgataatgcc gaccatgatg tcaccaatga 420
 ttatgccgag tat 433

<210> 9830
 <211> 429
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-038-Q1-K1-H1
 <400> 9830

cgatatgata aagtttgcga agaagatgta tccggagggtg gatttgatcg gtggtaatgt 60
 ggtgacaatt gcacaggccc agaatttgat tcaagctggt gtggatggat tgcgtgttgg 120
 aatgggatcg ggctcaattt gtaccacca agaggtttgt gctgttgga gaggacaggc 180
 aacagcagt tataaggttt catcttatgc caaggatcac aatgtaccg ttattgctga 240
 tgggtggaatt tcaaactctg ggcatattgt gaaagctctg tcgctggggg catccactgt 300
 tatgatgggc agcttttttag ctggtagtca tgaagctcct ggtacttatg agtataaaga 360

cggccgccga gtcaaaaaat acagaggcat gggctctctt gaagccatga caaaaggag 420
tgatgcaag 429

<210> 9831
<211> 198
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-038-Q1-K1-H11

<400> 9831

gggcccacca gccaccttga aagggggatt caattgccac cattgaacca ccattgggga 60
ccaggatttt ttccctccta atgctcctgg ctctttcggc atgtgtggct aacgcgacaa 120
tttccctca atgctcacia gctcctatag ctctcttct tccccatac cttncaatcaa 180
tgatagcttc agtatgtg 198

<210> 9832
<211> 430
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-038-Q1-K1-H2

<400> 9832

agagccgcaa ggccatgctg aagcttggca tgaagcccat cactggtgtc agccgcgtga 60
ctgtaaagaa aagcaagaat atactctttg tcatctccaa accagatgtg ttcaagagcc 120
cgaattccga cacgtatgtc atattcggcg aggctaagat cgaggacctc agctcccagc 180
tgcagaccca ggcagcagag cagttcaagg ctctgactt gagccagatg atctcgaatc 240
cagagacgtc tggcccggga caggaggaca atgatgaaga ggctcgacgaa actggtgttg 300
aggccaagga cattgagctg gtgatgacct aggcattctgt ttcaaggccc aaggctgtca 360
aggccctcaa ggcttctaata ggggacattg tcaactgccat catggatctg acaacctnag 420
gtgatatttc 430

<210> 9833
<211> 444
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-H4

<400> 9833

cggttcggaa ttccgaggct acgacgtca cgcgtaagcc gacgcagagg gagcgatatg 60
gggttcgtca gagacacgat ggagtcgata cgctgcatgc agatccgcca agtgctcatg 120
cagatcatca gcctcggat gattgttacc tctgcattaa tcatatggaa gggtttgata 180
gttttcacgg ggagcgagtc accagttgta gtgggtgctct cgggtagcat ggagcctgga 240
tttaaaaggg gtgatatcct gtttttgcata atgagcaaag atcctattcg cacaggagaa 300
atagttgttt tcaatgtcga tggctcgtgag attccaattg ttcaccgagt gattaaggtc 360
catgaacgtc aggacactgc agaagtggac atcctcacca aaggtgacaa taattttggg 420

gatgaccgac tattatatgc acat 444

<210> 9834

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-038-Q1-K1-H5

<400> 9834

acctgaagaa actccgaccg gccggtgggc ggtggcggca cggcaggatc tgtgccgcga 60
tggcgacgtc gaacacggcg cggatggagg acggcggcgg cgacctgcgg agcaccatca 120
agaagtggaa tatcatctac cctgtctacc tcaactccaa gaagacggtc gccgagggcc 180
gccgcacgc cgctgccaaag gcctgcccgg accccacctg catcgagatc gctgactgct 240
gttcgcacct caagatcccc cagccatcg agttggataa ggcgtaccct cgggatttct 300
tccaggtggg gagggtcagg gtgcagctta agaaagatga cggctcccc gtcaatcctg 360
ctattaaaac gaagaagcag ctgatgatcc aagtagcaga gctagttccc aagcatcacg 420
ngaggacaaa ga 432

<210> 9835

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-H6

<400> 9835

atatctttta gtaacctttc aataggcgtc cccaagaac tagtaaacaat ggcaaaactg 60
ttgagcctgt tcttagccct ctcctttgta gcagctatgt ttgccatagg ctctcatgct 120
gatggagact gtgagaatga cctccaaagc ctgataagt actgcaagac atacgtgatg 180
ttcccagcta atccaaaggt cctccttcg gatgcttgct gtggtgtcat caagaaggca 240
aacgtttctt gcttgtgctc caaggtcacc aaagaaactg agaaggttgt gtgcatggag 300
aaggttgtgt atgttgctga gcagtgtgag aggccatttg agcatggctt ccagtgcgga 360
agctacaagg ttccagcaaa ctgatgatat cgcaagaggg aagcgcttga cgt 413

<210> 9836

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-F7

<400> 9836

cccacgcgtc cggtaggcgca taacaaatac acttgtccaa tatgctctaa aacagctggt 60
gatttgacac atcattggga aatgttggat caagagatcg aagccacgat catgcctctt 120
gtgtatcgct acaagatttg ggtgctttgc aacgattgca acaaggtctc agaggtgaac 180
tttcacgtga ttggccacaa gtgcagccac tgcagatcgt acaacacccg aacgacatcg 240
cgccctgcag atttatcgga aagcagctca ccttcaacag actcatccga caacaacata 300
tagagaagaa accattgaca gagccaatat gattgaagaa ccgaaggagg aaatattggt 360
tcggggcggtg cgtgcttgcc aaacttgaag actcccagcc gtttattggc cctcatcttg 420
gct 423

<210> 9837

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-E1

<400> 9837

cagctgcaac agtttctgcc agcgctcagt caactagcca tggatgaaccc tgccgccggc 60
 ctacaacagc aacaactgct ttcattctagc ccgctcgctg tggccaatgc acctacatac 120
 ctgcaacaac aattgttgca acagattgta ccagctctga ctcagctagt tgtggcaaac 180
 cctgctgcct acttgcaaca gctgcttcca ttcaaccaac tgactatgtc gaactctgct 240
 gcgtacctac aacagcgaca acagttactt aatccactag cagtggctaa cccattggctc 300
 gctgccttcc tacagcagca acaattgctg ccatacaacc agttctcttt gataaacctt 360
 gtcttgctga ggcagcaacc catcgttgga agtgccaatc ttttagatac atatgag 417

<210> 9838

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-E10

<400> 9838

aattgttcaa ccctacagga tccaacaggt aatcgcaaca ggcattttac cattattacc 60
 cttggttctt caacaaccgg caggcctatt acagcaggtta cttttgggcc atttgggggc 120
 aaaaaacatc aaggcacaac aactacaaca acttgtgcta gaaaccttg ctgcatactc 180
 tcagcaacat cagtttcttc cattcaacca actggctgca ttgaactctg ctgcttattt 240
 gcaacaacaa ttaccattca gccagctagt tgctgcctac cccagcaat ttcttccatt 300
 caaccaacta gcagcattga actctgctgc ttatttacag cagcaacaac tactaccatt 360
 cagccagcta gctgatgtga gccctgctgc cttcttgaca ca 402

<210> 9839

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-E12

<400> 9839

agtgttaacg catccagcgg aacgcttttg cttcggcctt tgaacaattg gttccaaagt 60
 ttgagaccct cttggcgctt atggactttt cggggaaccc aaaactaggg ttcataattg 120
 cccaaggcga acttgctcgt actgccatat ttacacagat tgtccaacca atccctaaaa 180

tgggcttcga acacctacct gtgcaagcca acatgcgtca acaagcgctt gcggcgagcg 240
tcttacaaca accaattgcc caattgcaac aacaatcctt gccacatcta acaatacaag 300
ccatcacaac gcagcagcaa caacagttgc taccagcact gagccaccta gccatg 356

<210> 9840
<211> 419
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3059-038-Q1-K1-E5
<400> 9840

gctgctgagc acgttctctc gggacttcga ggccggcgcg ctggaagccc gcgggtggcc 60

gacggagttc gccgcgtaca aggtggccaa ggccgccctg aactcctact cgagggctct 120
ggcgaggcgg caccgccgagc tgcgcgtcaa ctgcgcgcac ccgggctacg tgaagaccga 180
catgaccagg cagacggggc tgctgaagcc cgcgcagggc gcggccaacg tcgtcaaggt 240
ggcgctgctc ccggaaggcg gccccaccgg agctttcttc gcgctaggca aggaggcgcc 300
gttcgtgtga cgctgccgta ctgggctggc ggtggtgggg acttcacggt ccggcgctag 360
tgcgcgcgnt ctccgacttg cctggcgccct gctatctact acctctctgc tctctgtgc 419

<210> 9841
<211> 320
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-038-Q1-K1-E6
<400> 9841

caaagaattt gaatatctga acaattgaat atctcacttg aacgttatat ggcttatgtg 60
ttaggcattc tttcttttcg tatggatttg gtttcaaata ataaatactt gttgtaattc 120
tattagcctc tgagggcaca ccttgcttca acatatttgt atacggaatc gatgacaagt 180
atccatgctt caacatatta acttacaaaa tgacacacga catcaaacta tcaatctacc 240
agcagatagc cggtgaccct gcaactacta tgacaacgta ctacaattgc tgccatatgt 300
gcatctagct gtgacaaacc 320

<210> 9842
 <211> 346
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-E7

<400> 9842

cagccagcta gctgctgcct acccccagca atttcttcca ttcaaccaac tagcagcatt 60
 gaactctgct gcttattttac agcagcaaca actactacca ttcagccagc tagctgatgt 120
 gagccctgct gccttcttga cacaacaaca gttgttgccg ttctacctac acgctatgcc 180
 taacgctggc accctcttac aactgcaaca attgctgcca ttcaaccaac ttgctttgac 240
 aaaccagca gtgttctacc aacaacccat cattggtggt gccctctttt agattgctta 300
 tgagttatag ttcaataatg aagttttttg gatgatgttt gtggct 346

<210> 9843
 <211> 397
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-038-Q1-K1-E8

<400> 9843

aagttccctt cgattagcta cactgatctt cagcaacgag tctcttagga aactgctggt 60
 ccacaggaaa aaatcgagca agaaacaggt gcacgggtat caatcagtga tggtagagtc 120
 actattgttg ctaaaactca agaaattatg gataaagcta ttgagaaggt tgagttcctc 180
 gtgggacgtg aaattgaagt tggtcgtaca taaaaggaa ttgtttcttc gattaaggag 240
 tatggcgctt ttgtggagtt caatggtgga caacaaggct tacttcatat ttcggagttg 300
 tcacatcaac cggttacgaa agtctcggat gttgtaactc ttgggcaatc tctctctctg 360
 agatgcattg gacaggacat gcgngtaac attaaac 397

<210> 9844
 <211> 416
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-038-Q1-K1-E9

<400> 9844

cggacgcgtg ggcggagccc tactaccgta ctctctcgc ctncactatc gctgcaacgg 60
tttgcctcgc ctctgctgc tgctgggact ctccggcttc ggtgtctaca tggggtgga 120
gtctccacg gttgtagctg acatgggact cgaacttctg tcggtgacct ttatttttag 180
cgtcattgtc tattttgcac tctacattgc cggcatcaag tccggccaca aaagtcttc 240
tttgagacca catgttagtg ggagcttcat gcaagattgg tggtttgag tgcaacttaa 300
tctgattct atggaagttg acctcaaatg cttctttgtg agggcacgaa tgatggcatg 360
gttatctatt aacctctcta tgtttgcaaa gagccactgt gctggatcag ccaatc 416

<210> 9845

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-F1

<400> 9845

cccacgcgtc cgcccacgcg tccgcggacg cgtgggttca gaaacacacc tagcgaagcg 60
cacgagcaac gacctaacaa caatggctac caagatatta tccctctttg cgcttcttgc 120
cctttttgtg agcgcacaac atgcgttcat tattcccaa tgctcacttg ctctagtgc 180
cattattcca cagttcctcc ctccagttac ttcaatgggc ttcgaacacc cagctgtgca 240
agcctacagg ctacaacaag cgcttgccgc gagcgtctta caacaacaa ttgcccaatt 300
acaacaacaa tccttggcac atctaaccat acaaccatc gcaacgcaac agcaacaaca 360
atttctacca gcactaagcc aactagctgt ggtgaaccct g 401

<210> 9846

<211> 178

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-F11

<400> 9846

gcgcttgccg cgaacgtctt agaacaacca attgccaat tactacaaca atccttggca 60

catctaacca taaaaacat ggcatcgag cagcaacaag cactgagcca cctaaccgtg 120
gtgaacccta tcgcctactt gcaacaacag ctgcttgcac ccaacccatt gcttggca 178

<210> 9847
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-F2

<400> 9847

ctctcaggaa caacaattcc ttccattcaa cctactgtct aactgaacc ctgctgctta 60
ttggcagcaa caactattac catttagcca gctagctact gcctactctg aacaacaaca 120
acttcttgca ttaaccaat tggcgtact gaaccccgct gcttatttgc agcatcaa 180
actactacca tttagccagc tagctacaac aagccgtgct ttcttcttga cacaacaaca 240
agtgtgacg ctctaacaag agcttgccgc taaccccgca accctcttac aactacaaca 300
attgtgccc tttgtgcaac atgctttgac aaaaacaata gcctcctacc aacaacacct 360
tattggaggt gccctatttt agattgctta ttag 394

<210> 9848
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-F5

<400> 9848

ctctcagcaa cagcagtttc ttccattcaa ccaactggct gcattgaact ctgctgcgta 60
tttgcaacaa caactaccat tcagtcagct agctgctgcc taccaccagc aatttcttcc 120
attcaaccaa ctggcagcat tgaactctgc tgcttattta caacagcaac agctaccacc 180
attcagtcag ctagctgatg tgagccctgt tgccttcttg acacaacaac agttgttgcc 240
gttctacctg cagctgctgc ctaacgctgg caccctacta caactgcaac aattgctgcc 300
attcaaccaa cttgctttga caaacccaac aacgttctac caacaacca tcattggcgg 360
tgccctcttt tagattgctt atgagttata gttcaataat gaagttattt ggatgat 417

<210> 9849

<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-F6

<400> 9849

caactagcaa catagaaagc acaattgtgt accaacaatg gccgccaaaa tatttagcgc 60
tacttatgct ccttggactt tctgcaagtg ctgctactgc gaccatcttg ccgcaatgct 120
cacaagctcc tatagctccc cttctttcca cgtacctctc accagcgggtg tcttacgtat 180
gtgaaaaccc aattattcaa ccctacagga tccaacaggc aatcacagct ggcattctac 240
ctttatcacc cttgttcttg caacaatcat cagccctatt acatcagtta cctttgggtgc 300
atttattggc acaaaacatc agggcacaac aactacaaca actagtgcga gcaaaccttg 360
ctgcctactc tcagcaacag cagttttcttc cattcaacca actagctgca ttgaactctg 420
cttcttattt gcaacaacaa c 441

<210> 9850
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-D9

<400> 9850

gcaacacaga gtaccaacaa tggcagccat acaatttagc gtgggttatgc atcttgggct 60
gcgtgcgagt gctgctatcg caaccgttgt tccacaatgc ttacatgctc ctatagcttt 120
ccttcttctc ccatacctat caccagcgcg gcttcatgcg tgaagacca atggatgcac 180
cctacctgat acaacaggca ctgcgaacaa gcatctgagc agtatcacca ctgttgcac 240
aacaaccgtc atccctatta caagagttac cttaggtcga tgcgggtggcg caacacattc 300
tggcacaaca actacaacaa cttgtgctag caaaccttga tgcatactcg cagcaacatc 360
agtttctgcc attctaccaa ctggctgcat cgaactatgc cgcctatttg caacaacaac 420

<210> 9851
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-C4

<400> 9851

cccaagttga acccgctgaa gcagcacaaa atccttctga tctagctgcc acttgcgggc 60
ctgcatacca agaagttggt ggtgctagt cctcgcaaag tgccattgag gccagaaaag 120
ctactgctgc ggcatctcag ctactcgca gtggttcac aagggcaatg gaaaatgcac 180
aggacggcgg ggagaggaag taacgagata gagctcgttt tttttatcg tctatgctac 240
atcttatgga tgcataatgat cctgcctgac gattctcagg tctcagctct ccgtggctcc 300
gtgtgcaaat ctctgccacg ggcgtgtttt aacgcctgat tggatggttg cccgctggcg 360
cgccccggcca gcctcgtacg gccacttcgg acgcatctgc atcttcggag gtaccgcgag 420
atgtagatga atggccgtaa aat 443

<210> 9852

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-C6

<400> 9852

cccacgcgtc cgtctacac tccggcttcc cctcttaata aatatttttt atggttggtg 60
tttattttaa aaggtttgcc gttttatatg atccaaactt acataaacat gcattcgagg 120
taataattat tctataatga cacctaaatt taattcactg accatttaat tacaatgcca 180
taactgaaaa aactctcacc ttaccaatgt taatcgcatt ccatcacatg cccctttcta 240
aatctgcagt aatactctaa aggatggtac caattatcct taccaatagt tccccaacct 300
gaatcctaaa tgggactcgc attgtataag aacattaaca actt 344

<210> 9853

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-C7

<400> 9853

eggacgcgtg gggatctggc tctgaaggag ctgatagctc cttgcaggag cagtacagca 60

aggagctggc ccttgaggag gcgagacca tagccctttc tattctgaag caggttatgg 120
aggagaaggt gaccccaaac aacgtcgata ttgccaaggt tgctcccaag taccacctct 180
acaccctgc cgaggtcgaa gccgtgatcg cgaggctgtg aaacgctttc ggagctcgtg 240
ttattcatgt catcaatcgg taatagacga tccttgtagc aagcgtggac atcttttggt 300
cttgattatg gctgtcatcg tactctgttg ttaactccac aaggacagtc gatggtacta 360
tgattcacac ctcagcccgga ttccgttgtc tgattgccta gtgcctacac ttgttttttt 420
attttaccgt ttcggct 437

<210> 9854
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-C9

<400> 9854

accactgctg cccaagaggt cgaccagtca gacgaacaca ccgctgtgtc aggcacggaa 60
gaactgctgg cgcagcagct caaggacaac ctccacagca gcggcgactg cactggccat 120
ggcaccctct cttcggaaga agacgacggg ggcgtggtca gtgacgaggg ctgcagcttc 180
gctctcccg atgcatgtt cgctgccggg ttcaccacc atggcgccga ggaggtgcag 240
ctggccaact ggacatccat gttctggaac tgatcagcgg atggatgcat ccaagtgcaa 300
agatcggatc ctctcctagt ctcgaccctt ttctgcagca tataattacc gtgttaatta 360
tgtgccgtcc gatgtttgta agtgctcat 389

<210> 9855
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-D1

<400> 9855

aaaggaccgc ggcgcctcgc tcgagttcta cgcctcctgg tgtggtcact gcaagaagct 60
tgctcctgag tatgaaagac ttggtgcaag ttttaagaaa gctaaatctg tcttgattgc 120
taaggttgat tgtgatgagc acaagagttt gtgcagcaag tatggagttt ccgggtatcc 180

aacaatccaa tggttcccga aaggatcctt ggagcccaaa aagtatgaag gacaacgcac 240
 tgcagaagcc cttgctgaat ttctcaatac tgaaggaggg acaaatagtaa agctggcaac 300
 cattccttca agtgttgtgg ttctcacccc 330

<210> 9856
 <211> 422
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-038-Q1-K1-D10
 <400> 9856

gcaacaacca tccctagtgg atctatatatt tcaataatc gtagcacaac aacttccacg 60
 accagggggt tcaacaatca aaccagtaat tgcagcgaac cttgattctt aacttcagca 120

acaacaattt ctttcattca atcaactagc tggggtgaac cctgctgctt acttgcaggg 180
 acaacagcta ctaccattca accaacttgt caggagccct gctgccttct tactgcagca 240
 acagttgttg ccattccatc tacaagttgt ggcaaacatt gctgctttct tgcaacaaca 300
 acaattgctg ccattttacc cacaggttgt gggaaacatt aacgccttct tgcaacagca 360
 acagttgctg ccattctacc cacaggatgt ggcaaacaat gtcgccttct tacaacaaca 420
 ac 422

<210> 9857
 <211> 303
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-038-Q1-K1-D11
 <400> 9857

agcaacaaca attttctcca ttcaatcaac tagctggggg gaacctgct gcttacttgc 60
 aggcacaaca gctactacca ttcaaccaac ttgtcaggag ccctgctgcc ttcttactgc 120
 agcaacagtt gttgccattc catctacaag ttgtggcaaa cattgctgct ttcttgcaac 180
 aacaacaatt gctgccattt taccacaggg ttgtgggaaa cattaacgcc ttcttgcaac 240
 agcaacagtt gctgccattc taccacaggg atgtggcaaa caatgtcgcc ttcttacaac 300
 aac 303

<210> 9858
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-D2

<400> 9858

gataagaagg cgggcccgtt ggcagagaag aatgcggcgg cggcggatca gagcaaggag 60
gtggccgctg gtgatgtgag cctgaaggag ctgtccaaga ggctcaacga cttcgccaag 120
gagagggact gggagcagta ccatagcccc cggaacctgc tgctcgccat gatcgctgac 180
gtcgggtgagc tgtcagagct gttcatgtgg aaaggggagg tgcgcaaggg cctcgcggac 240
tgggacgaag cggataaaga gcaccttggc gaggagctct ccgacgtgct gctctacctg 300
gtccgcctat ggcacatgtg cggcgtcgac ctacgcgacg ccgccctcag gaagatcgtc 360
aagaacgccg tcaagtacct 380

<210> 9859
<211> 403
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-038-Q1-K1-D3

<400> 9859

ctctgtcctt ccatctccat ggctgtcgcc ggcttgccgt gcttnccgct ctctgccggc 60
ggcgccgccc cagctgtgag gctggccgag aggccaaacc ggcagcgacc accccgacga 120
tggacgggtg ccgcaccgtc agcagaccgt ggggagatgg gcaacgacga cagtgggtgt 180
gaggcggttc cgccagggtc gtccgtcgbc gtgacgacta caaagcccgc cgcagcagaa 240
ctttctgtga aggaggatgt cagattgtca gtattctagt ttgaggatat gatgatattc 300
ccaagtgagc atggtggggt gtttctctat caacaagcac tccaagggtat aattgatgtt 360
gctccaatac cgggtgtgag aagagccaca actgatgtta cta 403

<210> 9860
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-D5

<400> 9860

cagcaaaagcg gcagtgcgta tagaggatcg tcgaacagaa cagcatgaag atggatcatcg 60
ttctcgtcgt gtgcctggct ctgtcagctg ccagcgctc tgcaatgcag atgccctgcc 120
cctgcgcggt gctgcagggc ttgtacggcg ctggcgccgg cctgacgacg atgatgggcg 180
ccggcgggct gtacccttac acggagtacc tgaggcagcc gtagtgcagc ccgctggctg 240
ctgcgcccta ctacgccggt tgtgggcagc cgagcgccat gtgccagccg ttccggcaac 300
agtgtgccca gcagcagatg acgatgatgg acgtgcaatc cgtcatgcat cagctgcaga 360
tgatgatgca tcttgagcgt gccgctgccg gcagcagcag cctgtacgag ccagctctga 420

t

421

<210> 9861

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-D7

<400> 9861

cgtttatgtg atatggacaa gtgtgtgtag ctgcttgctt gtgctagtgt aatgtagtgt 60
agtgggtggc agtggcacia cctaataagc gcatgaacta attgcttgcg tgtgtagtta 120
agtaccgatc ggtaatttta tattgcgagt aaataaatgg acctgtagtg gtggagtaaa 180
taaaaaaaaa aacaaaaaaaa aaaaaaaaaa aaaagaaaaa aaaaacaaag gcaacaagct 240
gcaaaggatc aaaagctcaa gtactataaa gagcaacgat ata 283

<210> 9862

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-D8

<400> 9862

ccgacacata gtgaggctac tcctaggcat ctaatctatc gagattgtac atggcgaggg 60
acgtatggaa gctgatatag ctgatagtga tcaagaacaa cttcttgctg gtgtatcact 120

caggcaacat cgatgccaac gacaatcaat accaacgagc gtataaactg tacagtgtac 180
 actcgtactg atactatgca taagcacaca aagaagctgt aacgaatcat ctaggttgat 240
 gcaaggaatg gcattgggag cactatacta acaataccta gatgcacagc aggcgatcaa 300
 tgtagaacca caagtataat atggacaagt agtaaactcat gatggacact gggagcaaca 360
 accaaatctg ctacaactat tacag 385

<210> 9863
 <211> 347
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-C3

<400> 9863

cccacgcgtc cgatctgaat gacaaagtaa acgttgaggc tagcaaaata agtgtgggtg 60
 tcagggtccat attctgtatt gtagaaaaag ctgaggccaa atggtggaag aaacttgttc 120
 gagatgatca aagggcacct cactttgtga aagttgattg ggacaaatgg gttgacgaag 180
 atgatgatgg tgctgatgtc aacttggtat ggatggactt ctcaattttt ggcggtatgg 240
 gtggtatggg tggcatgggt gatatggctg gcttgggtgg tcttgggtggc atgggtggaa 300
 tgggcgggtat ggggtggtat ggaaatggat gatttgagga tgatagt 347

<210> 9864
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-A6

<400> 9864

acacacctag cgaagcgcac tagcaacgac ctaacaacaa tggcttccaa gacattaggc 60
 ctctttgcgc ttctttgcct ttttgtgagt gcaacaaatg cgttcattat tccacaatgc 120
 tcacttgctc cgagtgccat tattccacag ttcttccttc cagttacttc aatgggcttc 180
 gaacaccag ctgtgcaagc ctataggcta caacaagcgc ttgcggcgag cgtcttagaa 240
 caaccaattg cccaattaca acaacaatcc ttggcacatc taaccatata aaccatcgca 300
 acgcagcagc aacaagcact gagccaccta gccgtggtga accctatcgc ctacttgcaa 360

caacagctgc ttgcatccaa cccacttgct ttggcaaacg tagctgcata ccaacaacaa 420

caacagttgc aacagtt 437

<210> 9865

<211> 404

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-Q38-Q1-K1-A9

<400> 9865

gcatcttcgt ggtgaaattg acaagctcgt taccgctcgg aaagaactat ctgcagaggc 60

tgcatctctc gtggaagagc tgaacagggg gcaatctggt aaacagcagc tacctgtgct 120

gaaaacagaa attgatggtc tgcaacagga acttggtcac gtgaggactg cttgcggggt 180

agagcagaag gggaatttgg aattgctgga acaaaggaag gcaatggaga agaataatgct 240

ttctatggca cangagatcg agcagatgcg aggcgaaatta gctaattttg aagttagacc 300

aaggggcccc ggtggagcat atgggatgca gattgggagt tcggaagtga ccttcactaa 360

gaacccatat gaagatgggt ataatgctta tgtggggggt cctg 404

<210> 9866

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-B3

<400> 9866

cggacgcgtg gggcagtttc tttcattcaa ccaactagct gcattgaact ctgctgagta 60

ttggcaacaa cagcaactac cattcaagca gctacctgct gcctaccagg agcaatgcct 120

ttcattcaac caactggcag cattgaactc tgctgcttat ttacagtagt aacaactact 180

accattcagc cagctagctg gtgtgagccc tgctaccttc ttgatacaac cacagttggt 240

gacgttctac cagcacgctg cgcctaacgc tggcacactg ttacaactgc aacagttggt 300

gccattcaac caacttgctt tgacaaaccc agcagcgctt taccaacaac ccatcattgg 360

tggtgcoccta ttgtagatgt cttatgagtt atagttc 397

<210> 9867
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-B6

<400> 9867

gagaaagtac taccagggaa catcattgtc cgccaaagag ggacccgctt ccacccctgga 60
aactatgttg gcatgggcaa ggatcataca cttttctgcc tgaaagaagg caatgtacgc 120
tttgagcgca acaaactctc aggcaggaaa tgggttcatt ttgatccagt tgctgggtcat 180
gatcttcacc ccattttacgc agatgggtttt gctactacat ccgacactga gccaatgcaa 240
taaagtgtgt tggggatttg ggctgtcatt ttgttccaac tcattcagct gccattttac 300
agtttcatgt gtaaacttta gcaggettga acgtagctgg atcttttctt tgtaatcata 360
actactttga ataataaag ttatacactg taagctttgt tctcatgggt 410

<210> 9868
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-B7

<400> 9868

aggaaaccca gccgacggcg catcgggtctt ccaggtaagc agtagcggtc acgtcagggg 60
ccgtcatgaa ggcgaacccc cgcgtcacga gctttcgccg gaagtgccgg aaggcgact 120
tcacggccca gtactctgtc cggcgcgtgc tcatgtccat ggcgctatcg acggagctat 180
gacacatgta caaatgtgcg ttccatcccg atcctgcata gacgacaagg tgcaagtcgt 240
gcgcggtacc tacaaggac ttgaggtcaa attggtgcac gtgtaacgac gttgctatgt 300
tatacacgta tagcgg 316

<210> 9869
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-C1

<400> 9869

ctttgaggca actctggcat cagaagcact tctaaatgaa gaggcggtag tagcagcggc 60
agccgcagag gctgttgctc ttgccagagc agctgccgaa gctgccaag aagttgttca 120
gatagtacaa agaaacaacc atcagccggt aattagacca aaaaagtgtg tggacaacta 180
cttggcaa at gaaatccttc gcacagagat gcgatcgagc agtcctgaca tgtatgctaa 240
taatcctttg atggagtatc tggactctta tggatatcatg gatgctgaag atgaattaga 300
tgcttatgca cagtatactg agaacatagc tgggaaatct gctcgtcaat ctgagagaaa 360
agc 363

<210> 9870

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-C10

<400> 9870

gctcgtgcgg ctcgtcaagg agaacaaggt caaccaagat cgaggagatc tacctccacg 60
tgatggggccg tcaaggagca ccaaatcatc gagaccctag tgccggggct caaggacgac 120
gtgatgaaga tcacgcccgt tcagaagcag acccgcgccg gacagcgac cgccttcaag 180
gcctttgtcg tcatggggca ctgctacggc cagctcggcc tgtgagtcaa gtgcgccaac 240
gaggtggcca ccgtcattcc gcggcgccat cattctcgac aagctctacg ctgttcccgt 300
caggaaaggc tactggggaa acaagattgg gcagtcacac accgtgccct g 351

<210> 9871

<211> 203

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-C11

<400> 9871

aaagaaacaa ctaaaaagag aaaacagttt tacctaaaaa cgaagagatc tacctaccgg 60
gatcgtgcta aacgagcacc agatgatcaa agaccatcga tccggagact aaagtcgagg 120
tgatgaacat cactcccgtt cagaagccga cccgctccgc acagcgacac cgcttcaagg 180

cctttgtcat cataagctac tgc

203

<210> 9872
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-C2

<400> 9872

cgcgggccagg ctcttcacca agcttatcgt tgtctttctg ctgctcgttt gttacaccgg 60
ggcacgggtg cgaccgggtga ctatggtgtc agcgaggaag tgcgagtcgc agagcttccg 120
cttcaaggga ccttgctcga gggacgccaa ctgcgcaaac gtctgcctga ccgaaggttt 180
caccggcggc gtgtgcaagg gcctacgcc cgcgtgcttc tgcaccaggg actgctagta 240
ctgcctcgcc tegtgtcctg cgtgtgcata tatagccgca gcggatcaat taaacatgca 300
tgcattgcgtt accaaatatt tggcagtacc agcaagttaa tgaattaaaa tattaataa 360
tatgtcatgg aaaaaactaa agcagaaaaa gg 392

<210> 9873
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-A4

<400> 9873

cgagaagcaa attgtgacgg ccaatcctga tatcaatgtc gtggagctct gcgatgatga 60
cgactttgtt gttgtagcat gtgatggcat ttgggactgc atgtcaagcc aacagctggt 120
ggattttatc cacgagcgta taaacacgga gagcagcctg tctgccgtgt gcgagagagt 180
gctggacaga tgctggctc catcaacgat cgctggagac ggggtgcgaca acatgaccat 240
gatcctggtg cagttcaaaa aacctgtcga tcggaacaag aaggccgaag cagcagggca 300
atctgccagc aatgtggacg aagccaagag tcgtgttgct gaggagtga gcatggctgg 360
cactcaccag ggcgcaacca tttgctttca taaggcatgt gaaaaaaagg aacgaaaaaa 420
cctgcagtgt acgtatctta act 443

<210> 9874

<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-H1

<400> 9874

gcgagagggt ttcctcttcc ctccacggct ccaacgagcc cccggcccct ccgcctcaga 60
gcccacgcgc ccggttggcc gccgcccccg ccatggatgt ggatctgtgg atctccaaag 120
tcaaggaagg ccagcacctc gccgagcacg agcttcagtc gctctgcaa tacgtgaagg 180
agatcctcat cgaagagtcg aacgttcaac cggatgaatag ccctgtgacg gtttgcggtg 240
acatccatgg gcagttccat gacctgatga agctcttcgc gacggggggc cacgtcccag 300
agacgaacta tattttcatg ggtgattttg tggaccgtgg cttcaacagt ctggagggtt 360

tcaccatcct gttgctacta aaagcgagggt atcctgcaca cataaccctt ctgcgtggaa 420
atcatgaaag taggcagttg acaca 445

<210> 9875
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-H11

<400> 9875

attgagacca acaagcaaca tagaaagtgg aatccagtag caacaataga gcaacaatgg 60
cgaccaagat attttccctc cttatgctcc ttgctcttcc tacatgtgtt gctaacgcga 120
caattttccc tcaatgctca caagctccta tagcttccct tcttccccca taccttccat 180
caattatagc ttcaatatgt gaaaaccag ctcttcaacc atataggctt caacaagcaa 240
tcgcagcaag caacatacct ttatcgccct tggtgtttca acaatcgcca gccctatctt 300
tggtgcagtc attggtacaa accatcaggg cacaacagct gcagcaactc gtgctacctc 360
tgatcaacca agtagctctg gcaaaccctt ctccctactc tcagcaacaa caatttcttc 420
cattcaacc 429

<210> 9876
<211> 426
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-H12

<400> 9876

cccacgcgtc cgcccacgcg tccgagaact gccataatg cggatttga tatcgagagc 60
cttctcaac cgctgataa atgctgctct gggagtccga agatgatcag ggccttgctg 120
cgtaagggtt cgaaccggat ggagaggagg ggcggcggcg gcggcgagca ggagcaagag 180
gatttggcga aaaaacttgt catcaaagt gtgccgtctc aactggagca gcagcccctg 240
ggtcagaaca aggcgctggt cgctccacat tgcacacctg ttcttggtga ttctggggaa 300
gggaggagca aaagattcat tagccggttc acgtccatca acccttcgaa gattctctc 360
ttgttcggca cgctgtcgag cgtggggaca acgattctga tctactttac gctggcgatc 420

aacagc

426

<210> 9877

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-H3

<400> 9877

agaaagcaca atagtgtacc aacaatggca gccaaaatat ttgcctact tatgtccgt 60
ggcttttctg caagtgtgc taccgcgacc atgttccgc aatgtcaca agtcctata 120
gcttcccttc ttcccgcgta cctctcacca gcggtgtctt cggatgtga aaacccaatt 180
cttcaaccct ataggatcca acaggcaatc gcagctggca tcttaccttt atcacccttg 240
ttcctccaac aatcatcagc cctattacag cagttacctt tgggtgcattt attggcacat 300
aacatcaggg cacaacaact acgacaactt gtgctagcaa accttgcttg ctactctc 358

<210> 9878

<211> 119

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-H4

<400> 9878

attttactac tgttttgaca ctcgttgat ttctgtatat cgcgtcagac tgttaaattgg 60
aagcactaca ctgtgtttct tgcaaacaaa acacaacaaa caaaaacata aactacaa 119

<210> 9879
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-H6

<400> 9879

cgaccctccc tccttcgctc cttccccgcc gcctcccggc cgtcgccgcc atggtgaagt 60
actcgcagga gccgggcaac cctaccaagt cggctaaggc catgggcagg gatctgaggg 120
tccacttcaa gaacacaagg gagacagcct ttgcgcttcg caagttgtct ttgaccaagg 180

ctaagcgata ccttgaggat gttattgctc acaagcaggc aattcccttc cggagatact 240
gtgggggtgt tggtcgcacc gcgcaagcta agtctcgcca ctccaatggg cagggccgct 300
ggccggttaa atcagccggg ttcacccctg atttgctgaa gaatgctgag agtaacgctg 360
atgtgaaaagg cttggatgtg gacaacctct atatttcaca catccagggtg aaccaagccc 420
agaagcagag gcgcccgcacc tacc 444

<210> 9880
<211> 444
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-037-Q1-K1-H7

<400> 9880

gccacatgga gacgccacag cagcaattcg cgcgcccgcc cgcgcccgcc gccacgggc 60
aggacgacgg cgggtcgccg ccgatgtcgc cggcctccgc cgcggcgccg gcgctggcga 120
acgcgcggtg gaacccgacc aaggagcagg tggccgtgct ggaggggctg tacgagcacg 180
gcctgcgcac cccagcgcg gagcagatac agcagatcac gggcaggctg cgggagcacg 240
gcgccatcga gggcaagaac gtcttctact ggttcagaa ccacaaggcc cgcagcgcc 300
agaggcagaa gcaggacagc ttcgcctact tcagcaggct cctccgccgg cccccgccg 360
tgcccgtgct ctccatgccc cccgcgccac cgtaccatca cggccgcgct cgggcgcgn 420

ccgcgatgcc gatgccgatg ccgc

444

<210> 9881
<211> 203
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-H9

<400> 9881

gtttcgaaag gtcctagga gatcagtga gtgaaggaga aagttcttag cgagaacgaa 60

caggtttaca ttttttgagg agttctatgt ttttgatca tggatatttg tctcgaagat 120

atgcctctgg tttcctttaa acttaatgcc tttgtaatca tttcgttctt agtatggtg 180

gacctttctt gtctgtttat cta 203

<210> 9882
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-A1

<400> 9882

ccacgcgtcc gcggacgcgt gggctgacac gtgttcggac gcatggggcg agctgcgcgc 60

ccggggccgca tctctccccg acgagtactt cctcgtgctc gtgggcgaca tggtcacgga 120

agacgcgctg cccacatacc ataccatgat caacacgctc gacggcctcc gcgactagac 180

tcacgccagc aactgccctt ggccagtctg tacgcgcgcc tggaccgacg aagagaaccg 240

ccacggtgac atcctctgca agtacatgta cctatccggc cgcgtcgaca tgcgcatggt 300

cgagaagacc cgtcagtacc tca 323

<210> 9883
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-A11

<400> 9883

catggacaca acaacagttg gccgtcctta gaagggatct tcttaacagg aagtaatgga 60

ttcaactcaa tgggtgttca tccagactca gtacagcgtg ggaactatac atttccaccc 120
 actcatatta gccattcatg gatgtcccat gctacaaatg gtattgctga tggagttccc 180
 cagtgggaat atgccaatgc aactgctaatt attcaaggca gatttgccca ttcaggagcc 240
 acagaaatcg caaatgttgg ttttcatgaa tatcagaatg gcccttcaac tatttgcgg 300
 ggaccagtac cttatttcca ccagcatgcg atgcatggca tgc 343

<210> 9884
 <211> 320
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-038-Q1-K1-A2

<400> 9884
 gccagaacta actggccccc ggcttacgaa tcccaaagcc ttcattggga cccaacggca 60
 ctggcttcca attcttctc ttctggccgn ncgctcgcc gncgtccctg ctgcgcggc 120
 gctggcgggc gggcgcgcc cgctgctggg cgggtggaac ccgatccctg acgtgagcga 180
 ctgcacatc caggagctag gcgggtggc gctggggcaa gcgaagcacc agaagctggc 240
 cgncgacggg ctgcggttcc gccgcgtggt gcgcggcgag cagcaggtcg tgtccgggat 300
 gaactaccgn ctctacgtcg 320

<210> 9885
 <211> 438
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-037-Q1-K1-F4

<400> 9885
 gattgagcag tccttcagg ttcacgtag ttatggaagt atgcttgaag gcgaggctga 60
 tgaactcaag agggttttcc ttgaaggaaa tccttatctt cttggattga ccatgattgt 120
 ttctctatta cactctctgt ttgatttctt ggccttcaaa aatgatattc agttctggaa 180
 caagaacaag tccatggaag gtctatcggc aaaatctgtg gttctgaatt ttgtgtgtca 240
 actaattgtt ttctgtacc ttcttgaaa tgacacttca tggatgatcc ttgctagctc 300

tggaattggt gtttgcattg agttttggaa gatcggaaaag gcgatgcata ttgaagtcga 360
tagaagtgga aaaattccca tgttgagggt ccgagatcgt gaatcatatg cacagaataa 420
gaccaaagag tacgatgc 438

<210> 9886
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-F6

<400> 9886

ccatgatgga ggcatttgta catgaccgt taatcaattg gcgtctgttc aatttcagtg 60
aggttcctca agtgtcgaac tatggtaatg ttcatgctca cacggttgtc agtagtgaag 120

aagcagtggc taaccgagag ctcatgcaac ctgagcgagg agcacgtgag agggaaactgc 180
tacaggctgt caatcaactc ggtgatgcca atgaggtttt gaatgagcgt gctgtagctg 240
tgatggcacg gatgagtac aaactaacag ggcgtgactt ctcttctggg tcagctttgg 300
ctggagcagg tagctctatc caacatggca gtgagcattt ggcttcagga gatgccccggg 360
atgccaacc tggctctctca gtgaagggtc aggttcagaa gctcactc caagcgactt 420
cacacgaaaa tttgt 435

<210> 9887
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-F8

<400> 9887

gtccctctct gatttttgga cgagcagaac atacctgaga cgacaggtag aagacgacgg 60
actgcctcga gcagcagaga tcaggaggc cgagggcggg atgacgatcc ggttcgtgct 120
gttcgtcaac aagcagggcc agacgcggct ggcgcagtac tacgagcacc tctccctcga 180
cgagcgacgg gccctcgagg gcgagatcgt ccgcaagtgc ctgccccgca ctgaccagca 240
gtgttcgttt gtggagcacc ggaactacaa ggtcgtttac aggcgtacg cctccctttt 300
cttctctgct ggcgtcgaca gcgatgagaa tgagttagct atccttgaat tcatacatct 360

tctggtggaa actatggatc gccacttcgg caatgtgtgc gagctcgata tcatgttcca 420
tctggagaaa gtg 433

<210> 9888
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-F9

<400> 9888

acaggatcca acaggcaatc gcagcatgtc atcttacctt tatcaccctt gttcctccag 60
caccgtcatc cctattacag cagttacctt tgggtgcattt gttggcacia aacatcaggg 120
cacaacaact acaacaactt gtgctagcaa accttgctgc ctactctcag caacagcagt 180

ttcttccatt caaccaactg gctgcattga actctgctgc ttatttgcaa caacaactac 240
cattcagcca gctagctgct gccctacccc agcaattact tccattcaac caactggcag 300
cattgaactc tgctgcttat ttacaacaac agcagctacc accattcagc cagctagctg 360
atgtgagccc tgctgccttc ttgacacagc aacagttggt gtcgttctac tcgcacgctg 420
cgctaacgc 430

<210> 9889
<211> 173
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-G1

<400> 9889

aaaaaaaaa aaaaaaaaaa aaaaaaatt taaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaac aaaaataaac atacatacaa aactaaaaaa taaaatataa aatcccccta 120
cttcaaatta ctccaccctt ttttaccacc ctttcaattt taaaaccctt ctt 173

<210> 9890
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-G2

<400> 9890

cgcatcacct attcacctcc gtcgcatct cgtccccgtg acccaccac cccgtcgcgt 60
ctcggcctgg ctctctctc ctcgaggacc gccgtgcaag agcggagctc cccgccgctt 120
ctctctccgc cttccgagag gcccgacccc tgataccacg ctgagggcgg tggattagg 180
agattagcga tggcaagggtg gcggccggcg gcgctgctgg tagtggctct ggcggcgggt 240
ctatcgacgg cgtggcgggc ggatgcgcta tcggttacgg tgaccgacac cgagtgcac 300
cacgagttcg tgccctatga gggcgacacc gtgtccggga acttcgtcgt cgtcgaccac 360
gacatcttct ggagctccga ccaccagga atcgacctca cggtaacgta accaggtggc 420
aacactgtgt acacattga 439

<210> 9891

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-G3

<400> 9891

gaagatatatt ccacgaccaa ctgctggtct ctctcgtgcc attgatcaat gccagactgt 60
gaagtacaac atgaattcaa gggctgggag aggctttacc cttgaagatt tgaaagcttt 120
gtgtattcca aaaaggcttg gtccaaccat tgacattact gtggaataac tgctcatgaa 180
caaataccta gaggagcttc acgccaatgt ccagaggctt aagacatatc tagccaagct 240
ggttatattg ccaaggcgtg ctcataaggt ctaggctgct gactctactc tggaggagct 300
taacaatgct acgcagtatc agggtgacta catgccaatt actttcgggtg agaagcgcta 360
tgtcaaggta gtgaacgtca cagatgaaat 390

<210> 9892

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-G4

<400> 9892

gacgccgccc ccgcaagccc tccgccttgc tcttcacgaa ggcttggtcc tctcctggt 60

gtctccactc ccccttcac agatccgttc ctccagctag ggtagcggt cctctgcagc 120
gatggcgatc aagcggacta aggcggagaa gaagatcgcg tacgacaaga agctgtgcag 180
cctgctcgat gactacacca aggtgctcat cgccctggcc gacaacgtcg gttccaagca 240
gctccaggac atccgccggg gcctcagggg cgactcgggtg gtgctcatgg ggaagaacac 300
gctcatcagg cgttgcatca aggtgtacgc cgagaagacc ggtaaccaca cctttgaccc 360
gctcatggac ctcttggtcg gcaacgtagg cctcatcttc accaaaggag a 411

<210> 9893
<211> 437
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-037-Q1-K1-G6

<400> 9893
cttcattgag atgtactttg tgttcacatc attctggaac tataaggtgt attatgtgta 60
tggcttcattg ttgctgggtct ttgtcactct tcttatagtc accatctgcg tcaactattgt 120
gggtacttat ttcttgctga acgccgagaa ctaccattgg caatggacgt cgttttcttc 180
tgcagcctca accgctctgt acgtgtatct gtactccatc tactactacc atgtgaagac 240
aaagatgtca ggcttcttcc agacaagttt ctatttcggc tacacgctga tgttctgcct 300
tggcctaggc atactttgtg gagctattgg ctatctaggg tcaacccttt ttgtaaggag 360
aatctacagg aatatcaaat gtgattaaat ccttgctgct taagctagca acaganaaat 420
catatgtatt gtcagga 437

<210> 9894
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-G7

<400> 9894
acgggatcca acaggcaatc gcagctatta tcttaccttc atcacccttg atcctgcagc 60
aaccttcac cctattacag cagttacctt tggtagattt gctgacacaa aacatcaggg 120
cacaacaact acaacaactt gtgctagcaa accttgctgc ctactctcag caacagcagt 180

ttcttccatt caaccaactg gctgcattga actctgctgc ttatttgcaa catcaactac 240
cattcatcca gctatctgct gactaccctc agcaattact ttcattcaac caactggcag 300
tattgaactc tgctgcttat ttacaacaac agcatctacc accattcagt cagctagctg 360
atgtgagccc tgctgacttc ttgacacagc aacagtgggt gtcaatctac tcgcacgctg 420
atcctaacgc tggc 434

<210> 9895
<211> 427
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-037-Q1-K1-F3

<400> 9895
aaaagatgct atgggttctt aactgctgtc atatcataac ttatcattta tgatgcgggg 60
gagtagagac ctccacatgt ctattcttga aggacgattt ccagaattcg tgccaggatt 120
cttgaagggtg ccattttcaa ccggagaacg ttcccagtggt ttcgcacgcg atgagtcgct 180
gcattgcata tcgatgctgg gctgcaccat gtctgacata acgtcagggg ccacctttaa 240
ctgtaccggt tgactgcaaa tggagttgtg ccgagttaag gctcttcgcc tctccggcaa 300
gcaaaagacg acgacaggct ttcacaaaga agtttttttt ccgtcataca tgtaggggtct 360
cactcacacc gattcagcat aggattttcc aatagtatgc tgaagcttgg cgacagggtt 420
tgttagt 427

<210> 9896
<211> 437
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3059-037-Q1-K1-E1

<400> 9896
cccacgcgtt cgaaataaca tagagcgatt gacactagct gtcctttctt atctacctag 60
cgctgtcctg tatgtgcatg atctatccga agactgtggg acctcagtggt ccgatcagta 120
cattacgtac aagcatatta aggacagatt ccgtgaccgg ctattgcttg aaggtaattt 180

ccaatgccaa ctttgggaaa gaagagccat aagtttcacg atgctgatga agatgtagca 240
 cggtacagaa gattgnngcc agaatgcgcc cttcaagtat ctgtgcagac cgaaatcggc 300
 gtcaaacagc ttaaggaaag agtgcattgag ctgctgacct ctcagatggc tcggatccaa 360
 tctagcaagg cggagcatga aacacatgaa gtagcgacta gtgttggtta ctgaagtttg 420
 acaataataa ggattcgc 437

<210> 9897
 <211> 373
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-037-Q1-K1-E11
 <400> 9897

aaaaaaaaa aaaaaaaaaa aaaaaaatta aaaaaaaaaa aaaaaaaaaa aaaaaagaga 60
 aaaaaaaaaa aaaaaaaaaa ggccaacagc ctgctcctcc ggttgaagag cgactggcct 120
 gctttctcgc aactagtcgc ccgccttgac cccaacgtct ttcgtgtcca taaagtccgg 180
 ttcccgccat ttggtcccaa aggggctcct aaaaccccca gtgaactaaa ggatgcctca 240
 tccttgtgac ggcttaaaaa ccccgctggt ctacgtgctt tgtcagcttt acctttcaaa 300
 gactaccgtg tctgctggtc tctttcagat tcaaaatttt ctgaaacagc tatgtttata 360
 aagaaaatgt ttg 373

<210> 9898
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-037-Q1-K1-E12
 <400> 9898

ggcgtttaaa aaatgggcac catcagagta agaactctggt tacacttcca ggatattggg 60
 tttctggaac cattggtcat aagttgatgt gtgggaaacc tacaagggtt gattacgagg 120
 aactcatat tgatgtcaga tgtcagatcc atcagctagc attcagtcct catacagact 180
 ccaaagggat tatggatctg acagaattcc tgtcacccaa acatgtaatt ctcgttcatt 240
 gtgaaaagcc tcagatggct tttcttaagg agaggatcga atctgaattg gggatgcctt 300

gctactaccc agggaataat gaatccgtct ccattccgac aaccagaac cttaaatga 360
 gtgctacaga aaggttcatt acaagctgtg ctgtggagca aggtaaacgt agcctgcaca 420
 agcggaac 428

<210> 9899
 <211> 334
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-037-Q1-K1-E4
 <400> 9899

ggcttctect cccctccgg ttccgggttcg ggttcgcgag gttctccggg gtccgctggg 60
 gtgggtgagc ggatcgagat ggccggcgctg gatgttgagt accgctgctt cgccggcgcc 120
 ctccgctggg ccacggacga ccactccctc cacaacgcct tcagcaccta cggcgaggtc 180
 ctcgagtcca agatcatgct ggatcgggag acgcagaggt ccccgcgctt cggcttcgct 240
 accttctcca cggacgacgc gatgcggaac gctctcgagg gcatgaacgg caaggagctg 300
 gacggacagc acatcacgcy taacgaggcc cagt 334

<210> 9900
 <211> 440
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-037-Q1-K1-E5
 <400> 9900

cccgatcgac accatgaggg tgttgctcgt tgccctcgct ctcttggtc tcgctgggag 60
 cgccacctcc acgcatacaa gcggcagctg cggttgccag ccaccgccgc cggttcatct 120
 accgccgcgc gtgcatctgc cacctccggt tcacctgcca cctctgtgc atctcccacc 180
 gccggtccac ctgccgccgc cggccacct gccaccgcgc gtccatgtgc cgccgccggt 240
 tcctctgccc cgccaccat gccactaccc tactcaaccg ccccggcctc agcctcatcc 300
 ccagccacac ccattgccgt gccaacagcc gcatccaagc ccgtgccagc tgcagggaac 360
 ctgcccgcgtt ggcagcaccg cgatcctggg ccagtgcgtc gagttcctga ggcatcagtg 420
 cagcccgacg gcgacgccct 440

<210> 9901
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-E6

<400> 9901

```

cccacgcgtc cgagctggca tcttaccttt atcaccccttg ttctccaac aatcatgagg 60
cctattacat cagttacctt tgggtgcattt attggcacia aacatcaggg cacaacaact 120
acaacaactt gtgctagcaa accttgctgc ctactctcag caacagcagt ttcttcatt 180
caaccaacta gctgcattga actctgcttc ttatttgcaa caacaacaac taccattcag 240
ccagctacct gctgcctacc cccagcaatt tcttcattc aaccaactgg cagcattgaa 300
ctctcctgct tatttacagc agcaacaact actaccattc agccagctag ctggtgtgag 360
ccctgctacc ttcttgatac aaccacagtt gttgccgttc taccagcacg ctgcccctaa 420
cgctggcacc ctcttacaac tg 442

```

<210> 9902
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-E8

<400> 9902

```

cggacgcgtg gggctctcac ccaatcaggg atgaggatgc caagttcaag ctctgcgggg 60
tgaggtctgt tcagtttggc cagaaggga tcccctacct gaacacctac gacggccgca 120
ccatccgcta ccccgacccg ctcatcaagg ccaacgacac catcaagatc gatctggaga 180
ccaacaagat catggacttc atcaagtttg acgtcggcaa cgtgggtcatg gtgaccggcg 240
ggaggaacac cgggcgtgta ggtgtgatca agaacaggga gaagcacaag ggcggttcg 300
ataccatcca cgtcaggagc tccatgggcc accagttcgc caccgcatg ggcaacgtgt 360
tcaccatcgg caagggaac aagccgtggg tgagcctgcc caagggaag ggtatcaagc 420
tcagcatcat cgaggagc 438

```

<210> 9903

<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-E9

<400> 9903

ggatctgcag gctctgcagt cacttttata catgaaagac aatgatgaag tgttcattga 60
gctgggttat gacaaggata agaagaagga aaatgctgag cgtgatgagc gtgccaagaa 120
gtctgtgagc attaacgagt tactgaaacc tgctgaagga taaaggtact acggcgagac 180
gtggctgagg aaggcgccgt gatgatcgcg gtgatttttag aggcgtatac tagaggggga 240
tacagtcatg gtccatctgc tgctgctcca tccattgaag atcaagctca gtttccaagc 300
cttgatggcg aagtgaacgt gcgccagct gctgatgtca ccgagcgttg agttgtctgc 360
tgctgtcata tttaaattga tgccgacgtt aaatatctgt gccacatgtt aaacggaaca 420
gataatgatg 430

<210> 9904
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-F1

<400> 9904

caaatgggtg gagagcatct tctgcaccac gcacctactg gcctcccca ccaactgagg 60
ctgagagcaa tggetacttg cgcgttcggt gcaatgggtg cttgaaccaa caacgtaatg 120
caatatgtaa tgcttgtggt gctgcacgga tcatgaatgc tacactgggtg ctgccagaat 180
tagacacaaa ttcattctgg catgatgaaa gtggccttctg aggtatttat gatgttcccc 240
acttcatcaa gacactgaaa tatgacgtcc gaattgttat gagcattcct gaaatcacta 300
caaatggaaa gaccaagaag ctcaaaggcc agcagcttcg gccaccaaga gatgcaccgg 360
tatcttggtg tgcaactgat gctttggaga cgatgaagaa gtatggagct atatatttaa 420
gtccattttc acaccgtttg gc 442

<210> 9905
<211> 426
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-F11

<400> 9905

cccacgcgctc cgcgcaagca cggcctatgc catatcaaga aaagagtctc agtaaaatgg 60
ttgggaacgg acgagcaagg tctggaatta ttgtgctacc ttgtggtgct ggcaagtcct 120
tggttggtgt atctgcagcc tgtcgtatta agaagagctg tttatgtttg gccacaaatg 180
ctgtctccgt agatcaatgg gcatttcagt tcaagctttg gtcgaccata aaagatgaga 240
acattagtcg ttttacatct gataacaagg agaagtttac agggatggct ggtgtggttg 300
ttactacata taacatgggt gcattcgggtg gtaaaaggtc tgaagattcg gagaagatca 360
ttgaagaaat ccgaaacaga gagtggggct tgcttctaata ggatgaggtc catgttgctc 420

ctgcac 426

<210> 9906

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-F12

<400> 9906

gaccactca ttcgaagact ctttcgcgca agcacagcct ataccatatc aagaaaagag 60
tctcaataaa aggtttatta tacaagacta tcaaggctctg taattattgt gctaccttgt 120
gggtgctggca agtccttggt tgggtgtatct gcacccctgtc gtattaataa gagctgttta 180
tgtttgcca caaatgctgt cttcgtagat caatgggcat ttcagttcaa gctttgatcc 240
accataaaat atgacaacat tattcgtttt acatctgata acaagcagaa atttacatgc 300
atctctgac tatttattac tacatataac atggttgcat tctgtgttaa aaggctctta 360
tattca 366

<210> 9907

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-D8

<400> 9907

gcattcattg gcacacacca tcagggcaca caactacaac aactagtgt agcggccttg 60
ctgcctactc tcagcaacag cagtttcttc cattcaacca actagctgca ttgaactctg 120
ctgcttattt gcaacaacaa ctaccattca gccagctagc tgctgcctac ccccaacaat 180
ttcttccatt caaccaactg gcatcattga actctcctgc ttatttacag cagcaacaac 240
tactaccatt cagccagcta gctgggtgtga gccctgctgc cttcttgaca caacaacagt 300
tattgccgtt ctacctgcac gctgcgccta acgctggcac cctcttacia ctgcaacaat 360
tgctgccatt caaccaactt gctatgacaa acccagcagc gttctaccaa caaccatc 419

<210> 9908

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-037-Q1-K1-C3

<400> 9908

caactagcaa catacatagt gaagtacact agccacatct tagcaccaat ggccgcccgg 60
gtttttgccc ttcttgccct tcttgcctt tcaacaaacg ttgctaccgc gactattatt 120
ccacaatgct cacaacaatt cctctctccg gtgacagccg cgagatttga ataccaact 180
atacaatcct acaggctaca agaggccatc gcagcaagca tcttacggtc gttagcattg 240
actgtccaac aaccatatgc cctattgcaa caaccatcct tagtgaatct atatctcaa 300
agaatcgtag cacaacaact acaacaacaa ttgcttcaa caatcaatca agtagttgca 360
gcgaaccttg atgcttacct ncagcaacaa caatttcttc cattcaatca actagctggg 420
gtgaaccctg ctgcttactt gc 442

<210> 9909

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-C4

<400> 9909

agacaacact aagggttgat acttcaaggg gagaaacact tcgcataaat tttgatgtgg 60

acctttccag cccttcaatg ttctataatt agcctggatg caatggacat cagtggacag 120
gagcacctag atgtgaaaca tgatgtattc aagcagcgaa ttgatgccca tggcaatgtt 180
attgcgacta ggcaagatgt agttggtggg atgaagatgg aggcacctct acaacatcat 240
ggtggaaggc ttgaacacaa tgaaacctat tgtggctctt gttatgggtgc acaagaatct 300
gatgatcaat gttgtaacac atgtgaagat gttcgtgaag cctacaggaa aaaaggggtg 360
ggtgtatcga atccagattt gcttgaccag tgcaaaaggg agggctttct tcaaagtata 420
aaggacgaa 429

<210> 9910

<211> 443

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-037-Q1-K1-C6

<400> 9910

aagacggacc tntagtgat aaaactcatg tttctactcg agtaatggga acctatggat 60
atgcagcacc agaatatgtc atgactggtc atctgacatc aaagagtgat gtctacagct 120
tcggggtggt gcttcttgag atgatgtcag ggcgcaggtc gatggacaag aaccgcccga 180
acggggagca caacctggtg gaatgggcgc gccccctcct aggcgagagg cagcggttct 240
acaagcta atcgaccctcgc ctggagggca acttctcggt gaagggcgcg cagaaggcgg 300
cgcagctagc gcgcgtgtgc ctgagccggg accccaaggc gcggcccctg atgagccagg 360
tggtggaggc cctgaagccg ctgcagaacc tcaaggacat ggcgagcgcc tntacttct 420
tccagacgat gcaggccgag cgg 443

<210> 9911

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-C7

<400> 9911

caaagataag gctaccggga aggagcagaa catcaccata cgatcctcgg gtgggctggc 60

agaggctgac atccagaaga tgggtgcaaga agctgagctg catgcccaga aggaccagga 120
 gcggaaagcc ctcatcgaca tcaggaacaa tgccgacacc actatctaca gcatcgagaa 180
 gagtcttgga gagtacaggg acaagatccc ggcagaggtt gcatctgaga tcgaggcagc 240
 catcgctgac ctccgccagg agatggcctc ggatgacatt gagaagatca aggccaagct 300
 tgaggctgcc aacaaggctg tctcgaagat tggacagcac atgtctggtg gtggctctgg 360
 cggctcgag tcaggatctg gacctcaggg tggcggcgac caggcgccgg aggcagagta 420
 tgaggaggtt aagaagtg 438

<210> 9912
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-C8

<400> 9912

caccactggt ggttttgagg ctggtatctc caaggatggc cagacccgtg aacatgcggt 60
 ccttgcgctc acccttgagg tgaagcagat gatttgctgc tgcaacaaga tggatgcaac 120
 cactcccaa tactccaagg cacgttatga agagattgtg aaggaagtct catcctacct 180
 caagaaagt gggtacaacc ctgataagat tgcctttggt cccatttctg gttttgaggg 240
 tgacaacatg attgagaggt ccaccaacct tgactgggtac aaaggcccaa ccctgcttga 300
 ggctcttgac cagatcaccc agcccaagag gccttcagac aagcccctgc gtctgcccct 360
 ccaggatgtg tacaagattg gtggtattgg aactgtaccg gttggtcgtg tggagactgg 420
 tgtcatcaag cctggtatg 439

<210> 9913
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-C9

<400> 9913

cccggttccg cgtgcctttc cccacctact ctgcggctc tcgccagcca gtctaggggt 60
 tcgggtcccg cgtgcttata cgtcccgcc ggccatgtcg aagcaaggag ggaaggccaa 120

gccgctgaag gcgccaagg ccgacaagaa ggagtacgac gagacggatc ttgcatatct 180
gcagaagaag aaagatgagg aaaaagcact gaaggagctt aaggccaagg cacagaaggg 240
cgcgattggg ggctcgggtc tgaagaaaag tggaaagaaa tgagactggc caccgtctc 300
caatacctag aggatgataa ggcagctgtc tatctgtgtt gcgcttcact aagtgtgatt 360
gtaacagtgg tacctcttgt gttctgtgtt ccgcgatgtt gcagttgggt gcttgatcga 420
aagatgtttc 430

<210> 9914
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-D1

<400> 9914
agagcaacta tcatcataga aagcacatta ttgtaccaac actggcacc aaatatttg 60
gcctccttat gcttcttggc ctttatgcaa gtctgatac cgcgaccatt tccccacaat 120
gtcacatgc tcctataact acccttacta ccccgtaact ctcaccaaca ttgtattcgg 180
tatgtgaaaa ccacttctt caacactata cgatccaaca ggcaatatgc actggcatca 240
tacctttatc acccttacta cttcaacact catcacacct attacagcag ttacctttgc 300
tgcatacatt tgcacaaaac atcactgcac aacatctaca acaactcgtg ctagcaaacc 360
ttgctgtcta ctctcagcaa cagcaagttc ttccattcaa ccaactacct gcatagaact 420
atgctgc 427

<210> 9915
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-D12

<400> 9915
cggacgcgtg ggctgtgtcc ggtcctccag gagccaatgc cactgcaacc agatctgggc 60
agaaagcaga tggaaacgcc gatggacctg aagacatggc cgtcgatcac aagggtgaaa 120
catcctctcc cgtcaagaac catattgacc tgaacatcca acctgaacgg gacgatgagc 180

agtcaccgaa atctggtgcg gctgggtttgt tgagccgaga caatgcaact tagagagtgg 240
 atagcgttgt ttgattgac ataccaatga gtggacatag. ataaccgatc gaacatatcc 300
 ttccgaatgt ctataccctt gtttttttta agatagatgt ggcgtgaggc gtgggggtctt 360
 gtagtgtagc tgttaccttc ccataccata gagccggttt ctttttacc tgagactcca 420
 gtggt 425

<210> 9916
 <211> 442
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-037-Q1-K1-D2
 <400> 9916

cttatcacia tgggttttagg atgagaggtc tatcttaatt tcatgggaaa tgagtttgga 60
 catccttaat ggatagattt ttcaagaagt ccgcaaagac ttccaaagtg gtaggttatt 120
 ccaaggaata acaacagcta tgacaaatgt cgtcgaagat ttgacctggg ggatgcagac 180
 tatcttaagt atcaattgta tcaagaattt tgatcaggca ttgcaacatc ttgagcaaaa 240
 atatgaattc atgacatctg atcaccagta tatttcccg aaacatgagg aggataaggt 300
 gattgcgttc gaaaagggag atttggtatt tgtgttcaac ttccactgca acaacagcta 360
 ttttgactac cgtattggtt gtcgaaagcc tgcggtgtat aaggtggtct tggactccga 420
 cgctggacta tttggtggat tt 442

<210> 9917
 <211> 259
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-037-Q1-K1-D5
 <400> 9917

accaccact caccctctc cacaacctta catcaactac taactacca cacaccaca 60
 caacaacaca tggtcacatt caaacatttt atgcctctc taaaacctct taccaccacc 120
 atatttccaa accattacca caaacccata ctaaccatca ttaacaacac atacaacctg 180
 aacattaaca atactactaa caatattact caccttctct catcaatacc aataacaaac 240

caaacaaaaa attctatca

259

<210> 9918

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-D6

<400> 9918

cctgggtcgt cctaggggtgg ctgctcatat tgccactgga actccatcca gatagggggc 60

acatgcaaat tgtaggggca ctactctaaa atcagtcacc gaacactaaa tctgaaagcc 120

atcgtgatgc tctcctagct atattctgcc agcacctgta cctggacatc atgattacca 180

atgtgggaca taccgtacaa ctagcttctt aactgccgat agttcatgac cagacgtact 240

tgaagcattg cgactcacca cccgagtgcg tagcctaaga gaacatactg accatagctg 300

gcggacattc tcgctgactg ctcgttccac ggatctgtgc atcctcatgt 350

<210> 9919

<211> 440

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-037-Q1-K1-D7

<400> 9919

cccacgcgtc cgcccacgcg tccgcgcaaa ttgcaccaag aaatccatcg agaggccggg 60

gacaggggaa ttaatggcgt cgtcgtctag cagcagccac cgccgcctca tcctcgcagc 120

cgccgtcctg ctctccgtgc tcgcggtgc cagcgccagc gccgggacct cctgcgtgcc 180

ggggtgggcc atcccgcaca acccgctccc gagctgccgc tggtagctga ccagccggac 240

ctgcggcatc gggccgcgcc tcccgtggcc ggagctgaag aggagatgct gccgggagct 300

ggcggacatc ccggcgtact gccggtgcac ggcgctgagc atcctcatgg acggcgcgat 360

cccgccgggc ccggacgcgc agctggaggg ccgnctagag gacctgccgg gctgcccgcg 420

ggaggtgcag aggggattcg 440

<210> 9920

<211> 443

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-C2

<400> 9920

gaccaactag caacatagaa agcacaatag tgtaccaaca atggcagcca aaatatttgg 60
cttccttatg ctcccttggtc tttctgcaag tgctgctacc gcaaccattt tcccacaatg 120
ctcacaagct cctatagctt cctttcttcc cccatacctc tcaccagcgg tgtcttcaat 180
atgtgaaaac ccaattcttc aaccctacag gatccaacag gcaatcgcag cacgcatctt 240
acctttatca cccttggttc tgcaacaacc gtcagcccta ttacagcagt tacctttggt 300
gcattcgggtg gcacaaaaca tcaaggcaca acaactacaa caacttgtgc taggaaacct 360
tgcttgctac tctcagcaac agcagtttct tccattcaac caactggctg cattgaactc 420
tgctgcttat ttgcaacaac aac 443

<210> 9921
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-B10

<400> 9921

ctcttcttca cctcactaac accgagctag cagctcgctc tgcctgcaa caatggccgc 60
tcgctcctcc tcccagcagc tggtcgcggc ggcggtcctg gcagcggcgc tgctgctgct 120
ggcggcgggg gccgggacgg cgtcggcggc ggtgagctgc ggcgaggtga cgtcgtcggc 180
ggcgccgtgc ctccgggtacg cgatgggcag cgcggcgtcg ccctccgcgg cgtgctgcag 240
cggggtgcgc tcgctcaaca gccgcgcgtc gtcgacggcg gaccggcagg ccacctgcaa 300
ctgcctcaag agcatgacgg gccggctcgg cggcggcgtc agcatggcca acgccgcaa 360
catccccggc aagtgcggcg tctccgtcgg cgtgcccacg agccccaccg tcgactgcac 420
caagatcaac 430

<210> 9922
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-B11

<400> 9922

cacactgaca ccgcaaacac gccaaaccggc ctaccgcctt cttctcttgt ctcgccggc 60
tcgcgactat ggccgccgcc gccgaggtag accccagccc caaccgccg ccaactacag 120
cctccggcct ctccaagacc aagacgcggg aggccgaccg ccgccgacgc cgccgcagca 180
aggccaagaa gaacaagtcc gtcactgagg ctgatgccca ggacgctgac gggggagctt 240
ccagctccga cgccaaggag aacgccgatc ccaacccga gccacagggt gaggtggaga 300
tagagtacgt gccggagaag gccgagcttg acgacctct cctggatgat ttcaaggcca 360
tcttcgagaa gttcaccttc aaggacgctg ctgcagcggc ggccgaggat gataataaa 419

<210> 9923

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-B12

<400> 9923

gccattcctg attcctccat cttccgttcc gccgcaccgc cgccggagat atgtcgaggc 60
tcgctgctgc cgccctccgc tgcgtcgtca ctgcatcgag agatacctcc tcctctcgct 120
tcgccgtgtc tgcgccggtg tctgctcggc tcttctccgc ggatgcatcc ggtgaagccg 180
ccgccacggc cgagagtcg caggatgact ctttcttcaa ggcatccgc gaaggattag 240
cctatggaag gttttacagt gtcattggtg gaggcagtcg tcttgagaag aacatattga 300
aaactgatat tatccatcac cttgacagat gtggattgtc attggatgat gtgaagattg 360
aatacaacaa gggatatgct ccattggccg ctttgttgag gttttcttcg aaggcaatgt 420
ttaccaccg 429

<210> 9924

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-B2

<400> 9924

gaaactgcac cacagagcat gccacacgca acgccttgat cctgtgcgag aaggcaagcc 60
atctagaggt cccagtagct gagggcagcc atgagcctct caaggaggga aagccgcacg 120
ttgctgactt cgttcacgga cctgatggcc tcgggaacgt agatcttcct gatcccacta 180
tcaagaaagt ggaggaaagt gctaccgact tcttggttga taaggctctg cgatttcctg 240
gagaggtctc tgtgctcgcc ttgggtcctc tgacaaacat agcattggcc atcaagaagg 300
atccctcatt cgtgaaaaac gttaagaaga tcgttggtgct ggggtggagcg ttctttgagg 360
ctggaaatgc cactccttcc gctgaagcaa atatccacag tgatccggag gcagccgaca 420
tggtttt 427

<210> 9925
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-B4

<400> 9925

cccacgcgtc cggatttccc tcatgtcgag aggtatttct ggaccatggt taaccagcct 60
gacttcaaga aggtcattgg tgaggtcaag caggcagagt ctgcacctcc tattccgaaa 120
aaggctgctc cttctaagga gccaaaggca aaggatgtca agaaggaggc tccaaaggaa 180
gcccccaagc caaagggtgg tgaggcacca gcagaagagg aagcaccaaa gccaaagcca 240
aagaatcctc ttgacttgct gccaccaagc aagatggtcc ttgatgactg gaagaggcta 300
tactcaaaca caaagactaa cttccgggag gttgccatca aaagtttctg ggacatgtac 360
gacctagagg gctactcttt gtggttctgt gactacaagt acaatgatga gaacaccgtc 420
tcctttgtga ccctgaaca 439

<210> 9926
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-B6

<400> 9926

cggacgcgtg gggcgtagca taacggattc gtagatatat gtatctacat caacgagagg 60

caaccattac tattttctgga ggcatactca ctggcctcag acgacattca catactacaa 120
 ttcatagtgc tcaggacctg cttgatcacg attgacgaat gagatatcga atgctgcata 180
 tcgtacatta tttttgactg atgcatgtac tcataatgct acaacctttg attgtactgc 240
 tgaacattct acagatagat cgcattgatac taacgctaac gctccttgct aattccttga 300
 catgctatcc cgaggatctg ccagactcta tctatataga gatgccactg cattgcgaat 360
 cctacttgat catggacacc tgatatcatg atcactgtca tactccgtga acatgtgact 420
 ttatggacaa 430

<210> 9927
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-B7

<400> 9927

cggacgcgtg ggatctataa atggctatct cccacatatg aactagtctc tatcatgagc 60
 caatccagat cagcaaagcg gcagtgcgta gagaggatcg tcgaacagaa cagcatgaag 120
 atggtcatcg ttctcgtcgt gtgcctggct ctgtcagctg ccagcgctc tgcaatgcag 180
 atgcctgcc cctgcgcggg gctgcagggc ttgtacggcg ctggcgccgg cctgacgacg 240
 atgatgggcg cggcggggct gtaccctac gcggagtacc tgaggcagcc gcagtgcagc 300
 ccgctggcgg cggcgcccta ctacgccggg tgtgggcaga cgagcgccat gtaccagccg 360
 ctccggcaac agtgctgcca gcagcagatg aggatgatgg acgtgcagtc cgtcgcgcag 420
 cagctgcaga tgatgatgc 439

<210> 9928
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-B8

<400> 9928

agaccaacta gcaacataga aagcacaata gtgtaccaac aatggcagcc aaaatatggg 60
 ggctcctta tgctccttgg tctttctgca agtgctgcta ccgcgaccat tttcccgcaa 120

tgctcacaag ctctatagc ttccttctt ccccggtacc tctcaccagc ggcgtcttcg 180
 gtagtgaaa acccaattct tcaacctat aggatccaac aggcaatcgc agctggcatc 240
 ttacctttat cacccttggt cctccaacaa tcatcagccc tattacagca gttacctttg 300
 gtgcatttat tggcacaaaa catcagggca caacaactac aacaacttgt gctagcaaac 360
 cttgctgcct actctcagca acagcagttt cttccattca accaactagc tgcattgaac 420
 tctgctgctt atttgcaaca ac 442

<210> 9929
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-B9

<400> 9929

cgcggtgtctt gctgtagtta ggtgctgctg tgtctggtct cctccggtag caactgtggt 60
 ctgatggaac agtaacaatg cttattgaat ccagctagtt gcttatttgt ggatcctctc 120
 tctttgttgt tggccacctt tatctcgtga tgtttggtgt catgtgaata ctctgaatgt 180
 gcatttcgaa gtttgagaag ttacgacgcg ttaaaaaaaaa agcgtgcacc acagcccgtc 240
 ccgagcgctg cagcacctca cggggatcaa gaagcactac tgccagaagc acagccagaa 300
 gaaggtcaag tgctacaggt gcaacatgcg ctacgacgtt tagtacgact tgaatgcgca 360
 cgtcaagacc tgcagcgacc gcaagtatct 390

<210> 9930
 <211> 442
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-037-Q1-K1-C1

<400> 9930

cggacgcgtg ggtgatgatg tcgacaagac catggatgaa attaataaac agactgaaga 60
 gatgaaacaa attcaagatg ctttgtcaac ttcttttgga acttctgctg attntgacga 120
 ggatgaactg gaagcggaac ttgaagaact ggaaggagca gagttggaat ctcagcttct 180

ggagcctgtt gcagctcttc ctgtgcatcc agtgcattgt ccaggcaaca agcaaccagc 240
 tcgccctgct ccacagaaag ctacagctga agatgatgag cttgctgcac tgcaagctga 300
 aatggcactg tgatcagggt tccactgaag aggtgaaatg tgtatatgaa ttgcgttatg 360
 ctgaaagctg agtcaggctt tattgtattt gccatgtgtg tataatcttg gtggatattt 420
 ggcaaccgtc aaccgaagca gc 442

<210> 9931
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-037-Q1-K1-C10

 <400> 9931

acttactcca tatggtggtg gcataaatga tacggcaatg ttctggggtg taaaattgtg 60
 acaatgatct gctgatgcaa gccggcaaac ttgggaatgt gcaatcagag ctgcttctcc 120
 gcaaggactc ccggactttc actttcgaaa agggatgggc cttccacgc cgagtttact 180
 tcaatggtga taattgtgtc atgccatctc ctgaaaatta tccatggctg ccgaatgcaa 240
 gccctctaac aaaaccattg gcaactcccat tcttggtatt ctgggttgcc ttggctgctc 300
 tgctggctta tgcatgatta gtgggatcaa gaggtttagc aagtttcaag ttgatgtcag 360
 attccatgag gtgcactgca acaagtcatt tgttcattca attccatggt tgcacagaaa 420
 agatgaggcg 430

<210> 9932
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-037-Q1-K1-C11

 <400> 9932

gcagtacgag gagcctgagc aaccgatgca gagcatggat gagatcatgc agatcctggc 60
 tgaggcgacc attccagcag ctggtcccca tggactcaat cagttcctga acgacggcct 120
 tgacctcgac gatgacatgg acgacctgga ctcagatacc gatcttgacc tggaaagcag 180
 tggggaaatc gtgtatgcta ttgacagca gcgaggcaat gcgtatcatc agtcgtgctc 240

agatcgtttg ttgcgccgca ggttaccgag ataattagag agacaggggg gaggtatctg 300
 ctggagatgc tgctcgtgtc tgatgccgtg atgccccct ttttttcac ctgttatgtt 360
 tggctgttgt ttggttgtgg tgcacctcca gtgttttaca acagtttggc ctttcggaat 420
 tggttgtgc 429

<210> 9933
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-037-Q1-K1-C12
 <400> 9933

agccgctcca tcagcgagca cgtcgagcag gggcagacgg tggccgcgta cggcggcggc 60
 gggatggtcc tgatgaacaa ggcggcggag gggtaacca ctttcgccga cgcgcacgtg 120
 ctggccgcgt cgcacgtgag ccaecgccg gggtcgagga tcgcggcgta cgccaggctg 180
 gcgcccaggc ccacggcgtc catcgcggtc cggggcacgg tgatggggtc gtccccggcg 240
 ccgtccgtgg ctttcttctc gtcgcgcggg cccaacaggg cgagcccggg catcctgaag 300
 ccggacatca cggggcccgg catgaacatc ctggcggcgt gggcgcccag cgagatgcac 360
 ccggagttcg cggacgacgt gagcctgcc ttcttcgtgg agtcggggac gtccatgtcg 420
 acgccgc 427

<210> 9934
 <211> 238
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-037-Q1-K1-B1
 <400> 9934

cccacgcgtc cgcggtgagc cgtgcgtccc tcgaccagaa gctcgccctc gccaaagcgtg 60
 gctcccgaga ggcgaccctc gccggagcca aggcggcagc ggtggcgact atcgctccg 120
 cgatccccac cctggccagc gtgcggatgc tgccatgggc caaggccaac atcaacccca 180
 ccggccaggc gtcacgtc tccacggtgg ctgggatggc ctacttcac gncgccga 238

<210> 9935
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-H7

<400> 9935

ccgatcgaca ccatgaggggt gttgctcggt gccctcgctc tcctggctct cgctgcgagc 60
 gccacctcca cgcatacaag cggcagctgc ggctgccagc caccgccgcc ggttcattcta 120
 ccgccgccgg tgcattctgcc acctccgggt cacttgccac ctctgtgca tctcccaccg 180
 ccgggtccacc tgccgccgcc ggtccacctg ccaccgccgg tccatgtgcc gccgccgggt 240
 catctgccgc cgccaccatg ccaactacct actcaaccgc cccggcctca gcctcatccc 300
 cagccacacc catgcccgtg ccaacagccg catccaagcc cgtgccagct gcaggggaacc 360
 tgccggcgttg gcagcacccc gatcctgggc cagtgcgtcg agttcctgag gcatcagtgc 420
 agcccgcacgg cgacgcccta ctg 443

<210> 9936
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-H8

<400> 9936

cccacgcgtc cgcagggttcg cagctcaat ggaaagatag agaataaaaa tgaggtggat 60
 gagggctctg aaggctccag ctctgctgag tctgatgaac tgaagcctaa caagagaggt 120
 gcctatggta agcctgggct tgcagcacca atgcctgtgc acatggaatc gaggccgggt 180
 gctggtgaaa ggagatgact tgtcatcggc atcatgccat gccatttcag gtttataatc 240
 ttgtggtttg tcatcttgct gctacatttc cactgatgtt tcatgatgga agtttttttc 300
 ccctcaaatt gtagaagatg tacaactgtg gactctagaa ctagggcagt tgtatatcca 360
 gacgacctct cgggtaattg cactttgttg cagaattgta ctactggact agtaccatct 420
 tttaaaaactg ag 432

<210> 9937
 <211> 426

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-036-Q1-K1-H9

 <400> 9937

 gctgctcctg gcgtcaccgc cagcccgctt acgcgggtag aggtgcgagc ggcagcgggg 60
 gggaaccgcg gctctctctg cgtagcgcgc gccgacggac aggcggagac gggcgcgctc 120
 aggggatgcg cctggctgcc accgaagccg ctgggagcgg gccagccgta ccggagcagg 180
 ggggccgcgc ccgtgtgtca ctacgtagcg cacctcagcg cgcgcaccat acaggggatc 240
 tacgccggag ccagcgcagt gctattagtt gctaaaggca ctgccataca caaatctttc 300
 cttgtgccat tacttgctct tcaggcacat tgcagcataa tctcatggat caagggtgac 360
 tatggtcagt ggactgctga tcacgctgtg ttgggtgcatc tatacttctt cattccaggg 420
 gaactg 426

<210> 9938
 <211> 317
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-037-Q1-K1-A1

 <400> 9938

 ggtgcagcgc ggcggtcgcc ccgagtcgtc cactttggcc ccgacaggct gtccaccgtg 60
 gcgcgaactg gccctcgccc gtttcggccc ggccggccgt agcagctcaa cagagaacta 120
 gcctctcgtc ggcttttccc aggtctgcgc gtggcgcggc gccgcagcaa agctccacgc 180
 gtgctgtgcc gccacccgnc gtaccggccc ggcccgtcgt cagtgtttcg gtcggtgaac 240
 gacgtctcgc ttgggtatca gcgcgttctt cgaagcgcac gaacgacaaa cgggagaagg 300
 aagagaactc gtgggga 317

<210> 9939
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-037-Q1-K1-A11

<400> 9939

cccacgcgtc cgcccacgcg tccgcccacg cgtccgcccc cccccaattc caaatccgga 60

gtgcccgcgg ccacagaccg acccccatca cacacgcgca tcgcgccacc ccatccgtca 120

ccgtcgaccc gcgagcacc atggcgaagg gaggaggtgg aggccagcgc gagggtagcg 180

ccctgaagag ggcggcgatc gtcgcagggg ggctcgcgct ggcctgggtc accgtggaga 240

ccgctttcag gcccttaatg ggccgcctcc gcgctgcat ctgcagctcc accgagaccg 300

cccgcgaccc cgaccaggag gagcctcccg cgctgcctc tgcggcggag gcggagaagg 360

cgtcgcgacc agaggagcct gccgcggtgg atgagaaagt cgaggagaag gtggtcgagt 420

t 421

<210> 9940

<211> 421

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-037-Q1-K1-A12

<400> 9940

gcaaagcggc agtgcgtaca gaggatcgtc gaacagaaca gcatgaagat ggtcatcggt 60

ctcgtcgtgt gcctggctct gtcagctgcc agcgctctg caatgcagat gccctgcccc 120

tgcgcggggc tgcagggtt gtacggcgct ggcgccggcc tgacgacgat gatgggcgcc 180

ggcggggtgt acccctacgc ggagtacctg aggcagccgc agtgcagccc gctggcggcg 240

gcgcctact acgccgggtg tgggcagccg agcgccatgt tccagccgct ccggcaacag 300

tgctgccagc agcagatgag gatgatggac gtgcagtccg tcgcgagca gctgcagatg 360

atgatgcagc ttgagcgtgc cgctgccgnc agcagcagcc tgtacgagcc agctctgatg 420

c 421

<210> 9941

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-A2

<400> 9941

caacttgtgc taggaaacct tgctgcctac ttcagcaac agcagtttct tccattcagg 60
caactggctg cattgaactc tgctgcttat ttgcaacaac aactaccatt cagtcagcta 120
gctgctgcct acccccagca atttcttcca ttcaaccaac tggcagcatt gaactctgct 180
gcttatttac aacagcaaca actaccacca ttcagccagc tagctgatgt gagccctatt 240
gccttcttga cacagcaaca gttgttgccg ttctacctgc acgctgcgcc taacgctggc 300
accctcttac aactgcaaca attgctgcc a ttcaaccaac ttgctttgac aaacccaaca 360
gcgttctacc aacaacccat cattgggtggg gccctctttt agattgctta tgagttatag 420
ttcaataatg aagttttttg gatga 445

<210> 9942
<211> 442
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-037-Q1-K1-A5
<400> 9942

gcaaggactc cgccaagaag actgcgaaga agtcgcgcgt caagtgcttc atcaagcggg 60
tcaacttcac tcacctcatg cccacccgct acacctcga cgtcgatttc aaggatgtcg 120
ccaccggtgg gcccgaagca ctctctaccc acgacaagaa ggtcgccgcc tgcaagacgg 180
ccaaagcgcg ccttgaggag aggttcaaga cgggcaagaa caggtgggttc tttaccaagc 240
tccgcttcta gatgctcggc ctcccgaata gtctgcttt agctgtcgat ttgttgatc 300
ggacacactc catctctgtt ttcgtattac catgaatatt tcgtgttttag tcctggggct 360
ctcagagata aatttgctaa gatatgccgt tgttggttta catgttttcg tgataggtct 420
ggttaaaatt ttgttctggt ta 442

<210> 9943
<211> 329
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-037-Q1-K1-A6
<400> 9943

caaaaacaca ccaagcgaag cgcactagca acgacctaac accaatggct accaagatat 60

tagccctcct tgcgcttctt gcccttttag tgagcgcaac aaatgcggtc attattccac 120
 agtgctcact tgctcctagt gccattattc cacagttgct cccaccagtt acttcaatgg 180
 gcttcgaaca tccagccgtg caagcctaca ggctacaact agcgcttgcg gcgagcgcct 240
 tacaacaacc aattgcccaa ttgcaacaac aatccttggc acatctaacc ctacaaacca 300
 ttgcaacgca acaacaacaa caacagttt 329

<210> 9944
 <211> 437
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-037-Q1-K1-A7

<400> 9944
 ctgttttttt tttttttttt ttttcttttt tctatttatt tttttttttt attatgagct 60
 tatgtccttt ccggtggaca tccttgtaaa tatcgtgggg gcccccaatt aggccacccc 120
 ggatctctga tttatcggga aggaatccga caaaggcccg gaggagcaaa ttggattggc 180
 tcttaatatc gggccgggca ttgacggagc gtaaatttaa caagggaacg gagcggttta 240
 aaacctccaa ccggtgagtg gtgtcaacac accttggccc ttgtaacgtt acttactatt 300
 agcgcgatgc tccaaccggg accctttgtt gcacctgtaa gccccctacc cgttgtttac 360
 atggggacat actcgcaaca gctgggtgtg ctaccttacc tagttcctaa agcaaacttg 420
 attggataaa attaact 437

<210> 9945
 <211> 441
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-037-Q1-K1-A8

<400> 9945
 cccacgcgtc cgcggaacgg tgggctagcc atcaagtaca acaaggcagt gcaggagggg 60
 gacgaactgc ctctgagaa acttgcgata gcaaatgtgg gtcggcaaga tgcaaaaaaa 120
 gcatttggaa gagcatgtgt cgaatttgat gtcacaaac atagttcaga ccctaggaac 180
 catgctcgac acggttgtct tttagtctac taatagtatt gttgtcccaa actgaaacat 240

agccacacta tcgaagcaca cgtgcgatga gcttgacgcc gggtagattt tggttctaag 300
 gtttgttttt gaatggattt gtctacattt cattgttggt aaacttcctg ccttttctat 360
 caaagcttca gtgcgttcta gttatgttta agccaagggtg gctccagatg tcagttggga 420
 tgtcattgcc ctgggagaac t 441

<210> 9946
 <211> 432
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-037-Q1-K1-A9
 <400> 9946

cccacgcgtc cgggcgtgta cagcgactac gacgtgcgca acgacaaagc tgcaggcggc 60
 agcagcagca gcaggaggcc ggagatggcg tggtagagc ggcgccggcc acggctcggg 120
 atcgtgtcgc gcaaggggag gcgcgtggtc gagaaccagg cggccgtggc gcagctggcg 180
 gcgtcggtcg ggttcgacgt ggacatcatg gagacggcca acggcgcgcc gctctcggcc 240
 gtgtacgcgt ccgtgagctc gtacgatgcy ctggtgggcy tgcacggcgc cgacctgacc 300
 acgttcctgt tcctgcgcc cgccgcgcgc gcgctggcgc agatcgcgcc gctcggcatc 360
 accatgctct cgcgcaacct cttcggcgtg ccggcggcca ggatggggct gcactacgtg 420
 cagtacgacg tg 432

<210> 9947
 <211> 438
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-036-Q1-K1-H5
 <400> 9947

gcatcgcgc cgccaaccg gaggaaccc gctgggaggg gacctgctgg tacgtccaga 60
 acctccgcc ctatgagttc cctctccagt tcgacatgcc cgtcgcctac cccaggtcg 120
 ccccgagat cgagctcccc accctcgacg gcaagactca caagatgtac cgcggtggga 180
 agatctgcct caccgtgcac ttcaagccgc tgtgggcaa gaactgccc aggttcggcc 240
 tggcgcacgc gctgtgctc ggcctcgcgc cgtggctcgc ggcggaagtc ccgattctgg 300

tcgactcggg catggtgaag cacaaggatg acgaggcggc tccggctgag gcactctgct 360
 ctgctgctcc tccttcgtag ttgccacttg caacaactga gtgtccgggtg agctaagggc 420
 gatatcggaa atcaactc 438

<210> 9948
 <211> 185
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-G2

<400> 9948

acttaccaca ctttatcatt ctctgccat atttataact tttaaaaccc aatccaacat 60
 ttccaattcc ctaccgattt caacattccc atctacacta ctaatcattc tatcattcac 120
 tctacacctc cttcacactt ccacataacc ttccccatta acacatcttc tcttaacttc 180
 ccaac 185

<210> 9949
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-G3

<400> 9949

gtccaggaca ccatcgaccc caacgcacgg atcgagttcc gcaagaacac ccaggacgag 60
 ccgcacaagc gcaagcccga catcagccgc gccaaaggagt tcctcgggtg ggagccgaag 120
 atccccctgc gtgagggcct tcccctcatg gtctccgact tccgcaagcg catcttcggc 180
 gaccaagacg ctactgccac caccggaaac cagcaagggtt aggatgaagg agcgcacatg 240
 acatggaaat ttttggtggc cctgcttcta gctgcttggt tgctctctcc ttactgacaa 300
 aagctatggg ccacgtagtt cggttggaat gtgttactgg aatacctcgg ctgatgctgt 360
 aatgccattc tttttttccc ctgtattttt tctttctcag ttctctcagt ccttagctat 420
 acaaaaaaaaa agttcagttg aacag 445

<210> 9950
 <211> 444

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-036-Q1-K1-G4

 <400> 9950

 caattggtta ttgatgaagc tgaacgcatt ctccatgatg cactctgtgt cataaggtgc 60
 ttggtcagca agagatTTTT gattgctggt ggtggtgctc cagaaataga gatgtcaatg 120
 cagctggctg cttgggcaaa ggagcttcga gggatggaga gttactgcat caaggagttt 180
 gctgaggcgc ttgaggtcat cccttacaca ttggctgaga atgctgggct caaccaatc 240
 tccattgtca ccgaactcag gaatcgccat gccagagggtg agaagaacac tggcatcaat 300
 gtgaggaaag ggcagatcac aaacatcctg gaggagaatg tcgtgcagcc gttgctggtg 360
 agcacaagtg ccattacgtt agcctgcgag tgtgtcagaa tgatcttgaa gattgatgac 420
 attgtcactg ttaggtaaga gcgt 444

<210> 9951
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-036-Q1-K1-G5

 <400> 9951

 cccacgcgtc cgcggacgcg tgggtggcgg tttctttcgc aaacctcagc tccgaggggg 60
 ggcttaaaaa gcttgatgag taccttctca ctgcagcta catcactggc taccaagctt 120
 ccaaggatga cttggctgtc tacacttcgt ttctgtctgc tccctcgtcc aagtatatca 180
 acgtagcaag gtggtttaat cacattgatg cgctcgtgag gctgagcggg attactgcag 240
 agggccaagg tgtgaagggtt gaatcgtcag cagttccttc agccccaact ccagatgttg 300
 ctgaagcaca ggccccagtt gctgaggagg acgacgacga tgatgttgac ctttttggtg 360
 aggagaccga agatgagaag aaggctgctg aagagcgtgc tgcagctgcc aaggcttctg 420
 gcaagaagaa agaatctggg aagt 444

<210> 9952
 <211> 342
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-G6

<400> 9952

gttaatgtgc tccatgctaa aactggatca cgtttgggta catcctcatc tcattgtgcg 60
agattcaaaa tctcgatcac ttccatccaa ctcgctactt cttcaatggc taccactctt 120
tcaaataataa tttccctgtc tacacaacgt cttcacttgc aaactcctgc aattacctaa 180
cttaatcacc ttgcatcaaa tacatctttg cgctcctgac gctttaccta ataactccat 240
acctacaaac cttccaaaca gattcgcaag ctgaatctta aatgaaaact gcccttaatg 300
ctaacataca gcccatacaca tataatgatt acgaccacga tg 342

<210> 9953

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-G7

<400> 9953

aagaaagaat ctgggaagtc atcagtttta cttgatgtga agccatggga cgatgagagt 60
gacatggcca agctcgagga agctgttagg agtgtccaga tggaaggggt gctctggggc 120
gcatccaagc ttgtcccagt tggatatggt atcaagaagc tgcaaatcat gatgaccatc 180
gtcgacgacc ttgtctctgt cgacactctc attgaggact atctgtgcgc tgagccagtt 240
aacgagtacg tacagagttg cgacatagtt gccttcaaca agatctaggc gtgactttcg 300
atcagtcctt cccctggggg gctggcgatg gtgggtggctg ggcaatgcac cagcctaatt 360
tatccatagc tatatgtctg ctttgtgtgg ccagtgatat tgccgtgagt atttttggat 420
cctattcgag tcgaatgtac ca 442

<210> 9954

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-G8

<400> 9954

gttaagtatg ttatcagcta tcttttcttg gacactgtac aatacttgga tccggtggga 60

aaagtttgta cctcttatag gtttctatct agtttttttc tgccaatctc ttcaagctaa 120
 ctcatgtacg tgtatgaatc acattgttat agtagctaac aatgtcagta gtgtaccaat 180
 caataactgt attgcagtca agaaaatagt aatttccttg actgattttg acatccccat 240
 ggctttaaca gtttaaaaac tgaaaattga ttctactata tttgtgtttt aaggccttag 300
 tgtaggcgta caatctacgt cgacgccaaa attaaatcac cttcctacat ccatagttga 360
 tatgaactgg tgagattctt actgatgcac taaatttcaa tcttaggata ctctttaatt 420
 gatgtatgct ttgcttc 437

<210> 9955

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-G9

<400> 9955

cccacgcgtt cgattcttca acccttcttg atccaaccgg gcattcggaa caaggccttc 60
 tgccttttat cacccttggt cctgcaacaa ccgtcagccc tattacagca gttacctttg 120
 gtgcatttgt tggcacaaaa catcaaggca caacaactac aacaacttgt gctaggaaac 180
 cttgctgcct actctcagca acagcagttt cttccattca accaactggc tgcattgaac 240
 tctgctgctt atttgcaaca acaactacca ttcagtcagc tagctgctgc ctacccccag 300
 caatttcttc cattcaacca actggcagca ttgaactctg ctgcttattt acaacagcaa 360
 caactaccac cattcagcca gctagctgat gtgagcccta ttgccttctt gacacagcaa 420
 cagtt 425

<210> 9956

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-H1

<400> 9956

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaat taaaaaaaaa aaaaaacaaa aaaaaaaaaa 60
 cggaactta aacaatatga tcccaactta caaacacata catccaactt caaccctctt 120

ctatacctaa acctaaatcc aatcaacttc cccactttta ccaacatcat aactcataaa 180
accattacct ttctcaactt actacttcat tccacaacat ctccacttat ctccacctat 240
attcaatact gacaaacacc ctcatcctt cacctttccc aac 283

<210> 9957
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-H10

<400> 9957

gggtccaagt gaccaacaac agggtttcag ctttgggcaa aacacatcaa gttggtggaa 60
ccagccactt cccaggttg aacagtcacg agtggtcagg ccgcatgcaa cggttgctcc 120
atttgattta gagaagacta gagaaggcag tgggttcaaa atatttggtt tccaagttga 180
tacaaccaat ccacacctg tccaattgag ctctccattg tctgctatcc gagagcatgt 240
ggtacaaact cgaccatcgg caccagtga tgaattgcaa cctgtgcaaa ttgagtgtt 300
gcctgaggtg tccgtaagca cagctggaac tgcagctgag aacattcagc aagtccagca 360
aagttcgaaa gatattcaaa gcaagtccca gggcgcttca acaaggagct gtacaaaggt 420
tcataagc 428

<210> 9958
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-H11

<400> 9958

agcgtggatt ccaacccgag gtgccgtgtc tcccaggctc gtggcgaatg ccgttgtgta 60
ccgataccat gtgctcgtcg ggacaggctc cactcagctc tttcaggccg tgctgtacgc 120
gctctcacct gcaagtgcg gcacacccat gaacgtcgtc tcaccggcac cgtactactc 180
gtcttaccba tctgtgacca actatctaaa ctctgcgtc taccgttggg ctggtgatgc 240
caatacattt gatggcgaca catgtattga gctcgtctgc tccccaaaca accctgatgg 300
tggcctccgg aagcctgtca tcaaatccaa gtctagcaag cctgtttatg acttcgccta 360

ctactggccg cagtacacac ccatcaccca ggcagctgcc catgacatca tgctgttcac 420
cgtctc 426

<210> 9959
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-H12

<400> 9959

ccctggcttc caacgccgag gtgccggttt ctccacaggc tcgtggggaa tgccgttggg 60
gacgggtacc atgtgctcgt cgggacaggc tccactcagc tctttcaggc cgtgctgtac 120

gcgctctcac ctgcaagtga cggcacaccc atgaacgtcg tctcacggc accgtactac 180
tcgtcttacc catctgtgac caactatcta aactctgcgc tctaccgttg ggctgggtgat 240
gccaatatcat ttgatggcga cacatgtatt gagctcgtct gctcccaaaa caaccctgat 300
ggcggcctcc ggaagcctgt catcaaattc aagtctagca agcctgttta tgacttcgcc 360
tactactggc cgcagtacac acccatcacc gaggcagctg cccatgacat catgct 416

<210> 9960
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-H2

<400> 9960

atgttatcag ctatcttttt ttggacactg tacaatactt ggatccggta aaaaaatttt 60
atacctgtta tacgtttcta tttagttttt ttctgccaat ctcttcaagc taactcatgt 120
acgtgtatga atcacattgt tatagtagct aacaatgtca gtagtgtagc aatcaataac 180
tgtattgcag tcaagaaaat agtaatttcc ttgactgatt ttgacatccc catggcttta 240
acagtttaaa aactgaaaat tgattctact atatttgtgt tttaaggcct tagtgtaggc 300
gtacaatcta cgtcgacgcc aaaattaaat caccttccta catccatagt tgatattaac 360
tggtgagatt cttactgatg cactaaattt caatcttagg atactctcta attgatgtat 420
gcttttcttc aat 433

<210> 9961
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-H3

<400> 9961

gactgaatca cggatcattc ggattgcacg ggggtctggt cgtcctgtca gggatgtcgt 60
cgacatgctg gaagagtata agcggcttgc taaaatctgg ggcaagatga agggctctcaa 120
gatcccaaag aaaggggaga tgagtgcact gtcccgaac atgaatgttc agcacatgag 180
caaggtcctt cctccgcaga tgcttaaaca gattggtggc atgggcggtc tgcagtctct 240
gatgaaacag atgggatcga aggagatgag cggaatgttt ggagggcatgg gtggcgagcg 300
gtaattttac gtcctgtttt tgggtggatcg tcgctgtgaa cttgtgatgc taaattgaga 360
gggttttagtg ctgtggtctg atcatcgtca gagactcaga ggtttccatg aagatcagcc 420
tgcgaaacagg cttactgtag ct 442

<210> 9962
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-E7

<400> 9962

cccacgcgtc cgcccacgcy tccggaaaac ccaattcttc aaccctacag gatccaacgt 60
gcaattgcat caggcatctt acctttatca cccttgttcc tccaacaatc atcagcccta 120
ttacagcagt tacctttggt gcattttattg gcacaaaaca tcagggcaca acaactcgtg 180
ctagcaaacc ttgctgccta ctctcagcaa caacagttac ctttggtgca tttgttggca 240
caaaacatca gggcacaaca actacaacaa ctctgtgctag caaaccttgc tgcctactct 300
cagcaacaac agttttctgcc attcaaccaa ctagctgcat tgaactctgc tgcttatttg 360
caacaacaac tagtactacc attcagccag ccagctgctg cctaccccca gcaatttctt 420
ccattcaacc aactagcagc attg 444

<210> 9963
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-E8

<400> 9963

cgtacgcttt ccacaacagc ctggggatga atagagccaa gacatggggg tactgaagag 60
 agctgcatgc atcatgaacg cacaaccata tgaatctatt ctgagaccga tcctgtgtgc 120
 acatggcatt gccttgcttg gctattgacc tggcccagta cggactagag ccaccagcat 180
 cagggcggac gtaccctgat ataacatata tatctgtagt tgcgtatgct gctaccggcg 240
 gagtccgatt ctgcgccata tgttgttcgc tatatatattgg gttgtgcggg attttgtagc 300
 actgtgggtc gagagatgct cattgggagc gatggacagc tctctgctcg tatttgtcat 360
 catgatagta tctaacggcg ctgcgcgaga ttatgaagca atgctctaac tgtctatgaa 420
 cacgac 426

<210> 9964
 <211> 381
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-F1

<400> 9964

caactagcaa catagaaagc acaatagtgt accaacaatg gcagccaaaa tattttgctg 60
 ccttatgctc cttggtcttt ctgcaagtgt tgctaccgca accattttcc cacaatgctc 120
 acaagctcct atagcttccc ttcttcccc atacctctca ccagcgggtg cttcaatgtg 180
 tgaaaaccca attgttcaac cctacaggat ccaacaggca atcgcaacag gcattctacc 240
 attatcacc ttgttccttc aacaaccgtc agccctatta cagcagttac cttttggtcc 300
 atttgggggc caaaaacca tcaagggacc aaccacctac cacaaccttg tgctagcaaa 360
 ccttggtctg atactctcag c 381

<210> 9965
 <211> 298
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-F11

<400> 9965

cccactcatt ccaaagaaaa taaaaaaatt aaaaaaaaat ataataaaac caaaaaaaac 60
cctaccactc aagagcatct caaactttct tacacgtcca tccaacgtca tatctctact 120
atcatatcac ctaaatacaa ttcactcacc atctttttac aacataccta cttaaaaaac 180
ctcaacatta cccaacttaa tcactttcca acacattcca ttttcctcaa ctaccttaat 240
acaaaaaata ccaccaccca tccacctacc taacatttac ccacactaaa tacttaaa 298

<210> 9966

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-036-Q1-K1-F12

<400> 9966

ggcagcgatg agtcgtcaga gacgagatat gatgacactg accataaggg ttcactctggg 60
cccaagaaaa ggaaatctgg taacacgtcg gctgaagggtg aaccgtctca agctgctgtt 120
gtgcgctatg ctacggttga gtcgccatat cccgcaaagg gaaggctctgc ctcaaagctt 180
ccagtgtctg cacctggcag ggcagcgctt cctagtgcca ccccgaaatct gaacattggg 240
atggacattt ggaatacttc tctgaccttg gctgttcttg cagtgcaggg ggaagcgaat 300
cctgngttgg cgcttgcccc acgtgatagc gttactcaac tggatgaacg tgaattgaag 360
agggagaggc ggaaacaatc taacagggag tctgcaagga gatctagggtt acgcaagcag 420
caagagtgt 429

<210> 9967

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-F2

<400> 9967

cccacgcgtc cggccgtcgc cgccctacgg ctcagatctt cgtcgtcatc ttctccgggg 60

acgagcacc aaagatgggtg gtccttcaac cagatcgggtt cctgagcgag ctgacgagca 120
 tgtacgagcg gagcacggag aagggtccg tctgggtcac catgaagcga tcaactctca 180
 agggcaaggc acagttgcgg aagatggaga ataaggggca ggaggtagag cacaggtgcc 240
 tcgtccgcgc ctccaatggc aagaagaaca tctccacctc ggtttctcta aaggagtaca 300
 caaagtttca agcttcatac gcaacagttc ttaaggccca tatgcatgct ctgaagaaaa 360
 gggagaggaa agacaagaag aagactgcag atgctgagaa ggcaattgag accgcacca 420
 agaagcagaa gaaagcatct tca 443

<210> 9968
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-F3

<400> 9968

cccacgcgtc cggctttgtc ttgggaggtg ccattgggct atctatgtca ttctgcacgt 60
 gccgtatctt gacgatgcc catacattca tgagaaatta atcaggaag ttttatcaca 120
 gtattgtgag tcatggagta gagatgatgc tcaaaggcaa tacattgtag aacttggtat 180
 accagaagaa tggatgcatg aagctctggc tctttatcac gaatactatg gagataaaca 240
 ggggtgactg gagaatttga ttcagtgtgg caactggaag aaagctcaca ctattttcgt 300
 gacttctgtt gctcattcta tgtttctgtc atctaaccat caggaggtct ggaagatcac 360
 aagtgccttg gagaaccaca agtatgaaat tgctgactgg gaccttggtg ccggaatata 420
 catagacttc tacgttctga aga 443

<210> 9969
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-F4

<400> 9969

ggttggttc tctccccct ccggttcggg ttcgggttcg tgagggtctt ccgggttggg 60
 gttcctgggt gaacggatcg aaatggcggc gtcggatgtt gagtaccgct gcttcgtcgg 120

cggcctcgcc tgggccacgg acgaccactc cctccacaac gccttcagca cctacggcga 180
 ggtcctcgag tccaagatca tctctgatcg ggagacgcag aggtcccgcg gcttcggcctt 240
 cgtcaccttc tccacggagg aggcgatgcg gaacgccatc gagggcatga acggcaagga 300
 gctggacggc cgcaacatca ccgtaacga ggcccagtcg cgcggcggcc gtggaagcgg 360
 cggcgggtggg tacgggtggg gccgtggaag cggcgggtac ggcggtggcg ggcgccgtga 420
 tggcggcggc g 431

<210> 9970
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-F5

<400> 9970
 catgcatgct tcatcacatt gttgactgca taacgaaaca catcgtcgtc ggatcgggga 60
 tgatgagttc cgtcgtcgtg gatgctgctg ctaccagcag cagcgagaag aagacgtcgt 120
 ggccggaggt ggtgggcatg tccatcaagg aggcgacgga gactattctc aaggacatgc 180
 ccaacgcgta catccagggt ctgcctgttg ggtcgcccggt gacgctggac cttcgccccg 240
 accgcgtccg tatcttcgtt gacaccgtcg ccatgactcc gacagttggg tgatacatac 300
 caaatgcaat aaacaaaccc tactttttat tttatgtttc cagttaataa taaaccaggc 360
 cttagcttct tggttgtcct tccttgggtg gtgttagctt ctaagctact agtacaccat 420
 taaaaaaagg aggacctcat gt 442

<210> 9971
 <211> 285
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-F7

<400> 9971
 gccatggaag aagggcacct agcgtggtgg tgcctttttt cctgtttgtg taatatgggt 60
 gcagtttttt ttgtgggtga ttcgtgattt gttgtgttac ctatagtcga cgcaacagga 120
 gctctggcat ttcgattcat tctgtctagt gaaaggacac tgccatcata tgccgataaa 180

aataacgctt cgtatcaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagtaaa aaaga 285

<210> 9972
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-F8

<400> 9972

caggcagtca aatgggagca atacatggca gaactcacca ccctggacca ttctcctgcc 60
 atcctggtga ccagaagaac ccagccaag gtttccaagg gccgtttgat ggcagcaggc 120
 ccatgtacac gacgaatcag gctcggatgc acgctccacc tctccacac ttccaaggag 180

ccttccccag gaacgcatct cctcttgagt tcccagcggg gttccgggga gcctggccgt 240
 ccgtgcaggc acctccgatg ccggcaccgt cacatccatc gtctttcccg ccgtttcagt 300
 tgaggccacc gccaccgtcg cagcaggata tgtctggcgc aggcggcacc aggtggcccg 360
 gtggcaatca aatctacaac ccttttgac caacggctgc ggcggcggct cagagagcgg 420
 aggctgaccc tgagtacg 438

<210> 9973
 <211> 283
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-G1

<400> 9973

tttcgcaaac ctcattcct agtggggct taaaagctt gatgagtacc ttctcactcg 60
 cagctacatc actggctacc aagcttcaa ggatgacttg gctgtctaca cttcattttc 120
 atctgtccc tegtccaagt atatcaacgt aacaagggtgg tttaatcaca ttgatgcgct 180
 cgtgaggctg atcggaatta ctgcataggg ccaagggtgtg aagggtgaat cgtcagcagt 240
 tccttcagcc ccaactccat atgttgctga agcacatgcc cca 283

<210> 9974
 <211> 425
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-G11

<400> 9974

cactcgtaga gagaaggaaa aatatcccca aaccctagct cccgatctcg atggcgaacg 60

ctcgcgtctt cttcgacatg accgtcggcg gcgccccggc gggccggatc gtgatggagc 120

tgtacgcaa cgaggtgccc aagaccgcg agaacttccg cgcgctgtgc acgggcgaga 180

agggcggtgg caagtccggg aagccgctcc actacaaggg ctccaccttc caccgcgtca 240

tccccgagtt catgtgccag ggcggcgact tcacccgcg caacggcacc ggccggcgagt 300

ccatctacgg cgagaagttc cccgacgaga agttcgtgcg caagcacacc gccccgggtg 360

tgctctccat ggccaacgcc gggcccaaca ccaacggctc ccagttcttc atctgcaccg 420

tcgcg 425

<210> 9975

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-E6

<400> 9975

cccacgcgtc cggaccaact agcaacatag aaagcacaat agtgtaccaa caatgggggc 60

caaaatattt tgcttctta tgctccttgg tctttctgca agtgctgcta ccgcgaccat 120

tttcccga tgcacaaag ctctatagc ttcccttctt ccccatacc tctcatcagc 180

ggtgtcttca gtatgtgaaa acccaattct tcaacctac aggatccaac aggcaatcgc 240

agcaggcatc ttacctttat cacccttggt cctccaacaa ccgtcatccc tattacagca 300

gttacctttg gtgcatttgt tggcacaaaa catcagggca caacaactac aacaacttgt 360

gctagcaaac cttgctgctt actctcagca acagcagttt cttccattca accaactggc 420

tgcatgaac tctgctgctt attt 444

<210> 9976

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-D12

<400> 9976

agaccaacta gcaacataga aagcacaata gtgtaccaac aatggcagcc aaaatattgg 60
gcctccttat gctccttggg ctttctgcaa gtgctgtac cgcgaccatt ttcccgcaat 120
gctcacaagc tcctatagct tcccttcttc ccccgtagct ctcaccagcg gtgtcttcgg 180
tatgtgaaaa cccaattctt caaccctata ggatccaaca ggcaatcgca gctggcatct 240
tacctttatc acccttggtc ctccaacaat catcagccct attacagcag ttacctttgg 300
tgcatttatt ggcacaaaaac atcagggcac aacaactaca acaacttgtg ctagcaaacc 360
ttgctgccta ctctcagcaa cagcagtttc ttccattcaa ccaactagct gcattgaact 420
ctgctgc 427

<210> 9977

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-D2

<400> 9977

cccacgcgtc cgaaaaaaaa aaaaaaatta aaaaaaaaaa aaaaaaaaaa aaaaaaaaag 60
aaaaaaaaataa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaaaa aaaaaaaaaa aaaaaaaaag gccgcccttt ttaaagatcc caattttact 180
tccccttcct tccaacttaa tacttttttt ttaggtcccc caaaattaat ttaattgccc 240
cttttttaaa aacttcttaa ttgaaaaacc cttggctttc ccaaattaaa tccctttgca 300
aaaaatccct ttttccaac ttggcttaat accaaaaagc cccgaacaaa tcccctttcc 360
aaaaatttcc ccaccttaat tggcaattgg aacccccctt ttaccggcac ttaaaccctg 420
gctgttttgg ggtttaccct a 441

<210> 9978

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-D4

<400> 9978

cggacgcgtg gggcaacata gaaagtggaa tccagtagca acaatagagc aacaatgggg 60

accaagatat tttccctcct tatgtctcct gctctttctg catgtgttgc taacgcgaca 120

attttccctc aatgttcaca agctcctata gcttcccttc ttcccccata ccttccatca 180

atgatagctt cagtatgtga aaaccagct cttcaaccct atagggtcca acaagcaatc 240

gcagcaagca acataccttt atcacccttg tttcaacaat cgccagccct atctttggtg 300

cagtcattgg tacaaacat cagggcacag cagctgcagc aactcgtgct acctgtgatc 360

aaccaagtag ctctggcaaa cctttctccc tactctcagc aacaacaatt tcttccattc 420

aaccaactgt ctacattg 438

<210> 9979

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-D5

<400> 9979

cagagcagcc gcatccacaa cctgcctctc tcgtcccctg gcggcggtccg cggcaggagg 60

gcggaatcta cggcgaggac ggtgaaggat gtcaaccgc acgagttcgt caaggcctac 120

tccgcccacc tcaagcgctc cggcaagatg gagctccctg agtgggttga cattgtgaag 180

actgcgaggt tcaaggagct tctccttat gatcctgact ggtactacat cagggctgca 240

tccattgcaa ggaagatcta cctaaggcaa ggcacgggtg tgggtggctt tcagaagatc 300

tacggtggcc gccagaggaa tggctccgc ccaccacact tctgcaagag cagtgggtgct 360

gttgcacgca acatcctgca gcagctgcag attatgggca tcatcgatgt cgatcccaag 420

ggtggacgcc tcatcacc 438

<210> 9980

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-D6

<400> 9980

ctctgattat taacaagctt cgtgcaggca tcaaggtctg tgctgtcaaa gtccttggtt 60
 ttggggaaaa caggaaggca aacttacagg acctcgctat ccttaccgga ggagaggtaa 120
 taactgaaga gctaggaatg aaccttgaga atgttgagcc tcacatgctg ggttcatgca 180
 aaaaggtgac tgtctctaag gatgacactg ttattcttga tggcgctgga gacaaaaagt 240
 ctattgaaga gagggcagac cagattagat cagcagttga gaacagcact tcagattatg 300
 acaaggaaaa gctccaggaa cggttggcaa agctctctgg aggtgttgct gttctgaaga 360
 ttggaggagc cagcgaagca gaagttggtg agaagaagga tagagtgaca gatgcactga 420
 atgctactaa agctgctggt gaag 444

<210> 9981

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-D9

<400> 9981

atgcgaattc ccaggcaggc aggtcgggta ggagggcagg aagaccgaag accgagccgt 60
 gcggggggctc gggacgggaa cgggacagga ccccaaaatc tcagatcctt cctgcccgcc 120
 cgcccgtgcc cgctcgacgcg tcgttcttgc cggcgcgcgc ccacctcgc cctctcctcc 180
 tccaggggga tcggatacgc cacaggetgc gcgatggtgc tgtgggtctt cggctacggc 240
 tcctcatctt ggaaccccggt cttcgacttc gacgacaaaa tctcgggctt catcaagggc 300
 tacaagcgca cctttaatct cgcttgcatg gaccacagag gcacaccgga gcatccggcg 360
 aggacctgca cgcttgaaac cgaacgacgag gccatatgct ggggaattgc atattgtgtc 420
 aagggtggt 429

<210> 9982

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-E1

<400> 9982

ctcggcggcc ggctcctctt tctcttcacc cacacgctgg tcatagagat gtcggctgcg 60

gaggcgaagg cggcggcggt cccggagtct gtgctgcgga agcgcaagcg ggaggagcaa 120
 tgggcagcgg acaagaagga gaaggcgctc gcggacagga agaaggcgct cgagagccgc 180
 aagatcatct tcgcccgcgc caagcagtac gccgaggagt accacgcca ggagaaggag 240
 cttgtgcagc tcaagcgtga ggcccggttg aagggtgggt tctatgtgag cccagaggcc 300
 aagcttctgt ttgtggttcg catccgtggt atcaatgcca tgcaccccaa gaccgcgaag 360
 atcttgacg 369

<210> 9983
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-036-Q1-K1-E11

<400> 9983
 gagaccaact agcaacatag aaagcacaat agtgtaccaa caatggtagc caaaatattt 60
 tgcctcctta tgctccttgg tctttctgca agtgtctgta cgacgaccat tttcccgcaa 120
 tgctcacaag ctcttatagc ttctcttctt ccccatacc tctcaccagc gttgtcttca 180
 gtatgtgaaa acccaattct tcaaccctac aggatccaac aggcaatcac agcaggcatc 240
 ttacctttat cacccttgtt cctccaacaa tcatcagccc tattacatca attacctttg 300
 gtgcatttat tggcacaaaa catcagggca caacaactac aacaactcgt gctagcaaac 360
 cttgctgcct acgctcagca acagcagtta cctttggtgc aattggtggc acataacatc 420
 agggcac 427

<210> 9984
 <211> 420
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-036-Q1-K1-E12

<400> 9984
 ggaatctacc aattgctttt cgtctcctgt ccatcccttg ggcgctaccg ctctctggc 60
 ttggcaacga cgactggcgc cgccgctgcc agacttcgct gggcatctcg ccggcgacga 120
 gctcccacca ggattagaga aggtgatggc gaggagtgc agctgcctgg cgcgctggg 180

tgccggagtt gcgatcggtg ggcggtcgg cggagccgtc ggtgcttgtt atggaacttt	240
tgaggcattc agatacaaga tccctggatt gctaaagatc agacatatcg ggcaaactac	300
tgttggcagc gctgcaattt ttgggctttt cttgggggct gggagcttga ttcactgcgg	360
aaaatcctac tagtttgttt ccctcctttt tctgaacacg actttgtcga tgtgcttcag	420

<210> 9985
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-036-Q1-K1-E2

 <400> 9985

gggagtgcag acagagctag ggatgtccca aatgattcta cgagttcccg tcaacatagc	60
---	----

cgcgacaaaa ttgatgagcc taattctaaa aggcaaagaa ctagtgactg attggaatct	120
acttgtgagc tgagaatctt gccagttctt gatttacctc agcggatgat caaaataagg	180
acttgagaca aatggtggca gtattgagac aaaaatggat tagctgtggt atatacttgg	240
cactgagggc actagacgag gcacctatgc cttttttttt tgagggggcg catcttataa	300
gctgttattt ttttagtgca acgagcatac atgctgctgg catccaatcc ccaatatgta	360
caagttttta ttcaggttgt gatcatttac gcaacgaatc aaagccttcg ctctgggtcat	420
tgccgtagca tacggaggac tg	442

<210> 9986
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-036-Q1-K1-E3

 <400> . 9986

cccacgcgtc cgcccacgcg tccgggcagc cagtcagcca gaggagccta gagccagtgg	60
cgccccgtcc atcagccgcc acaccacaaa caccacccac tctgctctcg cccgcttgct	120
ttctctcccc cgctccagct tatggcggag gcggcgccag cagccggcgg cggcatcggg	180
gacatcctcg ccacgagcga tcgggacttc ctcgctccga actccggcga gcaggtgaag	240
atcagcagcg ttgaggcgag ccctgtggcc atctacttct cgcctcatg gtgcccgcga	300

tgcaggaggt tcacgcccac gcttattgaa gtatacgaaa aactggcctc acagggcaag 360
 agcttcgagg tcgtctntgc ttcggccgat cgcaatgagg aagctntcaa tgaatactnt 420
 gcaaagatgc catg 434

<210> 9987
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-036-Q1-K1-E4

 <400> 9987

gtcaaggggtg atgctgaaag gaacttcttt gttgagcttt gggatgtttc tggacatgag 60
 cgctacaaag agtgccgggtc acttttttat tcacaaatta atggtgtcat atttgtttat 120
 gacctctccc agaggaaaac aaagacaaat ttgaacaagt gggcagtgga ggtttctgaa 180
 tctgggacct tttcagctcc tcttgggtct ggtgggtccc gtggccttcc agttcettac 240
 ctagttattg ccaacaaagt ggatattgct ccaagagatg gtagaagagt gagcagtggg 300
 aatcttggtg atgttgctcg tcaatgggtt gaaaaacaag gtctgcttcc atccagtgaa 360
 gtgcttcac ttgcagataa ctttcttggc aattctgggt tgctcacggc tgccaaagag 420
 gcaagatatg ataaagaagc tct 443

<210> 9988
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-036-Q1-K1-D11

 <400> 9988

caagcagcaa taatatttga ctgctcgata ttatacaatt ccatgatccc gtgcagcagc 60
 gccagtactg tactcctcct tttcatctta tacaacacca aaagaatgga tcgaaattcg 120
 taacacatga caacaggatg acaattacaa gtgattaaaa aaagcacaca tgtgaggggg 180
 gaaaaggaag gaaactccgg gaagaggcta cgccaatgat ggaaagatgc actaagctca 240
 ccggcgccgc ctggagacta caggggaact tgtaccagtc tgctgccttc taaaactagg 300
 cgaggacgtt tggacgggag catgctgtgc ttggtaagaa gaatgtgcgg caggctttgg 360

gcctgctggc gcagctgttg gttgaagggc cgactccatg aaacaggcta tgttcaatcg 420
agtcctct 428

<210> 9989
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-C1

<400> 9989

cgcaacgcaa cagcaacaac agttcctacc agcactgagc cacctagcca tggatgaacgc 60
tgtcgcttac ttgcaacagc agctgcttgc atccaaccca cttgctctag caaacgtagt 120
tgcaaaccag caacaacaac aactgcaaca gtttctgcca gcgcttagtc aactagccat 180
ggtgaaccct gccgcctacc tacaacagca acaactgctt tcacttagcc cgctcgctgt 240
ggccaatgca cctacatacc tgcaacaaga attgttgcaa cagattgtac cagctctaac 300
tcagctagct gtggcaaacc ctgttgcta cttgcaacag ctgcttccat tcaaccaact 360
aactatgtcg aactctgttg cgtacctaca acagcgacaa cagttactta atccattggc 420
agtggttaac ccattggctg c 441

<210> 9990
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-C11

<400> 9990

cagcaaagcg gcagtgcgta gagaggatcg tcgaacagaa cagcatgaag atggatcatgg 60
ttctcgctgt gtgcctggct ctgtcagctg ccagcgctc tgcaatgcag atgccctgcc 120
cctgcgcggg gctgcagggc ttgtacggcg ctggcgccgg cctgacgacg atgatgggcg 180
ccggcggggt gtacccttac gcggagtacc tgaggcagcc gcagtgcagc ccgctggcgg 240
cggcgcccta ctacgcggg tgtgggcaga cgagcgccat gtaccagccg ctccggcaac 300
agtgtgcca gcagcagatg aggatgatgg acgtgcagtc cgtcgcgag cagctgcaga 360
tgatgatgca gcttgagcgt gccgctgccg ccagcagcag cctgtacgag ccagctctga 420

tgacgacgca gc

432

<210> 9991
<211> 408
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-036-Q1-K1-C12

<400> 9991

ggtcaatcga gctcgctata tgccccaata ttcatttata attgctacta agacagttgg 60

cgcagaagta tatgtttttg actatagcaa gcacccatct aagcctccac tagatggtgc 120

atgcaaccct gatttacggc tgaagggaca taattctgaa ggatatggct tatcatggag 180

tatttttaaa gagggacatt tgttaagtgg gtctgacgat gctcaaattt gcttgtggga 240

cattaaagca aatagtagaa acaaaagtct tgacgccttg cagattttta agcatcatga 300

tggtgtcgtt gaagatgttg cttggcactt gaggcattgag tacttatttg ggtcagttgg 360

tgacgattat catcttttga tttgggacct gcggtcnntc cgccctac 408

<210> 9992
<211> 443
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-036-Q1-K1-C2

<400> 9992

cggacgcgtg ggcggacgcg tgggaggacg cgtgggcacc aagaaatcca tcgagagggc 60

gtcgacaggg gaattaatgg cgtcgctcgtc tagcagcagc caccgccgcc tcacccctgc 120

agccgccgtc ctgctctccg tgctcgccgc tgccagcgcc agcgccggga cctcctgcgt 180

gccggggttg gccatcccg cacaaccgct cccgagctgc cgctggtacg tgaccagccg 240

gacctgcggc atcggggcgc gcctcccggt gccggagctg aagaggagat gctgccggga 300

gctggcgga atcccgccgt actgccggtg cagggcgctg agcatcctca tggacggcgc 360

gatcccgccg ggcccggaag cgcagctgga gggccgnta gaggacctgc cgggctgccc 420

gcgggaggtg cagaggggat tcc 443

<210> 9993
 <211> 437
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-036-Q1-K1-C3

<400> 9993

gtcgcacata tctactattc tatactttta ggagccaggg ccccaaccgc cttggcagcg 60
 cagatgcttg cattgttcgc tctcctagct ctttgtgcaa gcgccactag tgcgacgcat 120
 attccagggc acttgccacc agtcatgcca ttgggtacca tgaacccatg catgcagtac 180
 tgcgatgatgc aacaggggct tgccagcttg atggcgtgtc cgtccctgat gctgcagcaa 240
 ctgttggcct taccgcttca gacgatgcca gtgatgatgc cacagatgat gacgcctaac 300
 atgatgtcac cattgatgat gccgagcatg atgtcaccaa tggctcttgcc gagcatgatg 360
 tcgcanatga tgatgccaca atgtcactgc gacgccgtct cgcagattat gctgcaacag 420
 cagttaccat tcaatgt 437

<210> 9994
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-C4

<400> 9994

cccacgcgtc cgggtggatct gtgaacccca tggcgcctct gcttgattaa actgcgaggg 60
 atacatgata aactaagacc accactcaga tcaccaccat cttattcaga tccaaaggaa 120
 cggacgcagg gggagtcgac gatgacggag ggagggcggc cgaacagaag attagaagct 180
 gaatgccgac agataaagtt ggttgatgct ccagtatctg gtgggtgtgcg atccggcggtt 240
 catggacgga gcgaaacccg cggcagcatg ctgctccacc ctgcgtgcgc aggaggcatg 300
 cttgtgcgtg tacgccaaag accccaagtt tgcaaaatac atcaacaacc ccaacaccgc 360
 caaaaccttt acctcgtgcg gcatagccat ccccaaatgc taagcaagcg ctctgcgtcg 420
 tcgcttcgct tgctcttgct cttg 444

<210> 9995
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-C6

<400> 9995

cagaccatta gctttatcta ctccagagcg cagaagaacc cgatcgacac catgaggggg 60
 ttgctcggtg ccctcgctct cctggctctc gctgcgagcg ccacctccac gcatacaagc 120
 ggcggctgcg gctgccagcc accgcgcgcg gttcatctac cgccgccggt gcatctgcca 180
 cctccggttc acctgccacc tccggtgcat ctcccaccgc cggtcacact gccgcgcgcg 240
 gtccacctgc caccgcgcgt ccatgtgccg ccgcgcgttc atctgccgcc gccaccatgc 300
 cactacccta ctcaaccgcc cgggcctcag cctcatcccc agccacacce atgcccgtgc 360
 caacagccgc atccaagccc gtgccagctg cagggaacct gcggcggttg cagcaccgcc 420
 atcctggggc agtgcgctga gttt 444

<210> 9996
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-C8

<400> 9996

ctcttgacac tcatttgagg ctcatcaggt tgggtgtgat ggtgggacac atactgagat 60
 tgctgatgac aatcattaca ggagtcacgg ctttggtggt ggtgcagaac atgggttctt 120
 cggtaatcag tgtgacacaa aagagtggga cttcggctctc agtatcggtt gggaaaagca 180
 tgattttttg tcaacaaaca atgtcataga agaggtgttc gggaagtgct gtgacactgc 240
 tgaccaggac cttatctgag ccagacgcgg aggcttcttg tcagctgcga aaactttacg 300
 gttctctgaa ttgtacagca gtagttggct attttgattt aatgcctcac ttgttcttac 360
 aggaatctca tctctgttct tggaacatca tctgcttggt atttcgtcac atgattaatg 420
 taaatccgta gatatcatca aaa 443

<210> 9997

<211> 430
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-036-Q1-K1-C9

 <400> 9997

 ctggtgctct ccagtacatc agcgggtgtga tcctcttcga ggagaccctg taccagaaga 60
 ccaaggatgg caagcctttt gttgatgtcc tcaaggaggg aggcgtcctc cctggcatca 120
 aggttgacaa gggcaccatt gaggttggtg gactgataa ggagaccacc acccaaggcc 180
 atgacgacct tggcaagcgc tgcgccaagt actacgaggc cggtgcccgc tttgccaagt 240
 ggcgcgctgt tctcaagatt ggcccctaatg agccatcaca gcttgccatc gacctgaacg 300
 ctcagggtct ggctcgtat gccatcatct gccaggagaa tggctctggtg ccaattgttg 360

agcctgagat ccttgttgat ggccctcatg acattgatcg ctgcgcttac gtcactgaga 420
 ccgtccttgc 430

<210> 9998
 <211> 405
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-036-Q1-K1-D1

 <400> 9998

 cggacgcgtg ggcggacgcg tgggtttgaa tccaccgaaa ctcccagaac tgatagatga 60
 gttctaaaga acttggagtt cggcctggca gactaggtg gcgagaaagg agcagcctac 120
 gaccggatag ttctgaacgc agcattggct gaccactggt taggctgcag cggagccgag 180
 cacttcaacg ttgcgctaga ccgcgcgagg gaagccatgg atcgcggaga ctctgtgaga 240
 acgctcgtga gctacataaa gatctgcac agagtcttct aggctagctc tcaccccggy 300
 tctcagtga agatgcaca attgggtctt agagccaaaa ctgggatatc ttttctgcgg 360
 agccagaggg cctttgccac tgcgtgtcgg tgtttacgac ccagc 405

<210> 9999
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-D10

<400> 9999

ccgacgcgtc cgcttctcac cgtccaaccg tgcacaatga attgaagcgc cacgcggttg 60
caatattcta ttgccacggg caggtgcgtc gcgtcgattc ctggtcttcg agaggagcgg 120
aggaggaggg cggcgagtgt ggaggagagg cgagttcagc tgtagcgttt cttttcttgc 180
ccgtggcggc tgcggtgcc a cctcgaacgc tgctccctgt tctggggctt actgcggatc 240
ctgatctgag catcattcag agaggaagaa atatgcttag gagaaagcat ggctctgatg 300
tcaactcaga tgatgctgag caaagagaag cacagattag tgaacttaaa gctgctcttg 360
agactttgtc tgcccgtggc gagaagtact gcagtgaagc atgcttgaga agatatctgg 420
aagcccg 427

<210> 10000

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-B9

<400> 10000

ccgacgggaa cccggacttc gcggcgctcg aggtgctccg gcgcagggcc tacgacgggg 60
ccaaggcgga cgcgtggtcc tgccgggtca tcctcttcgt cctcctcgcg ggccacctcc 120
ccttcgacga cgccaacatc gccgacatgt gccgcagggc gcaccgccgg gagtacacgg 180
tcccgcggtg ggtgtcgcag ccggcgcgcc gcctcgtggc gcgcctgctg gacccgaacc 240
cggcgacgcg cctcgccgtc gcggagctcg ccggccaccc ctggttcaag cgctcgctca 300
gcgtggactc ccagctcggc ggctccttgg acggccaggc ggagcgcgag ctggcggttc 360
aggccccgcc ggcgctgaac gccttcgaca tcatctccat gtccccaggg ctggacctgt 420
cgggcctg 428

<210> 10001

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-A3

<400> 10001

cggacgcgtg ggagaccgac aaggacttgc aggtttatgc tcctgccgct aagctcaggt 60

gcctataacc acgacgactg cccctcattg ctcacatcct cctataccct gtatgttacc 120

accgtacctt tcaccagega tgtcttcagc ctgtgaaacc ccaattcttg agccctacag 180

gatccaacag gcggtcacat gccgcatctt acctgtatca ccctcgaacg tacaactgtc 240

atcaacccta ttacatcaac tacctatgat gcatttatag ctacatctca tcacgtaca 300

gcagctactg catctcgggc taccaaacct tgctgactac gctcaacatc agcagttacc 360

tttgatgcta ttgatggcac agaacatgag ctcacagctg ctacgacagc tcttgctagc 420

caaccttgat gtctactctc 440

<210> 10002

<211> 443

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-036-Q1-K1-A4

<400> 10002

atgacttctg gtgaggctgt caagtacaag agctcattgg acgcattcca gcagatccgt 60

aanaaggaag gcccgaagtc cctgttcaag ggtgctggtg ctaacattct tcgtgccatt 120

gctggcgctg gtgtgctttc tggtacgac cagctccaga tcctcttctt cggaaagaag 180

tacggctccg gcggtgctta aatggagaaa aatgatgacg aacaagagca gttcgtctcc 240

ggtcagccc agtcaggatc tggtaagtt tttgcctttc atatcgaaga aattaataat 300

ttatgtagga gaatctttcc aacattcgtt ttgggcggag acattgatct caaaacactc 360

gtaactgtcc tactaggtgg tggcatgggt ccccaaaaca tggcataggt gtgtgtctag 420

tctgcccttc gttgcagccg ggc 443

<210> 10003

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-A5

<400> 10003

acgcgtggga gacggccaag gactggaagg gcctccgct caccgtcaag ctcaccgtcc 60
 agaaccggca ggccaagggtc tccgtcgtcc cctccgccgc ggcgctcgtc atcaaggcgc 120
 tcaaggagcc agagagggac cgcaagaagg tcaagaacat caagcacagc ggcaacatca 180
 gcctcgacga cgtcatcgag atcgccagga ccatgaggca caggtccatg gccaaaggaat 240
 tggccggcac cgtcaaggag atcctcggtc cctgcgtcag cgtcgggtgc accgtcgacg 300
 gcaaggaccc caaggacctg cagcaggaga ttgacgacgg cgagggtggag atcccgtccg 360
 cttaagaagg attggtgtcc aggactgtgt tatctttgct gctgaagcca ttctctgctt 420
 agattttctc atattttattt 440

<210> 10004
 <211> 444
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-036-Q1-K1-A8
 <400> 10004

cccacgcgtc cggcaagtgc tgctaccgag accattttcc cgcaatgctc acaagctcct 60
 atagcttccc ttcttcccc gtacctetca ccagcgggtg cttcggtatg tgaaaaccca 120
 attcttcaac cctataggat ccaacaggca atcgagctg gcattctacc tttatcacc 180
 ttgttcctcc aacaatcatc agccctatta cagcagttac ctttggtgca tttattggca 240
 caaaacatca gggcacaaca actacaaca cttgtgctag caaaccttgc tgctactct 300
 cagcaacagc agtttcttcc attcaaccaa ctagctgcat tgaactctgc tgcttatttg 360
 caacaacaac taccattcag ccagctagct gctgcctacc cccaacaatt tcttccattc 420
 aaccaactgg catcattgaa ctct 444

<210> 10005
 <211> 434
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-036-Q1-K1-A9
 <400> 10005

gtttgtgtca atggcagagc gtcttgggaa tgcccttatg caggatcctg ctatgtccag 60
 tatgcttgag aacttgacca gtccagctca taaggagcag cttgaggaga ggatggcccc 120
 tatcaaggaa gatccatcct tgaagccaat tcttgatgaa atagagaatg ggggtccatc 180
 tgcaatggtg aagtattgga atgaccctga ggttcttcaa aagattggcc aggcaatggg 240
 tgtaaacctt cccggagatt ctagtgtgtc cactgtgctc tctggaccgc aagagactga 300
 ngaggaagga ggggatgacg atgagtcctat tgttcatcac actgcaagtg ttggtgatga 360
 agaggggttg aagaaagctt tagaagggtg agcagacaag gatgaagaag atgccgaggg 420
 aagacgggca ttac 434

<210> 10006

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-B1

<400> 10006

cggacgcgtg gggacccacg cgtccgatta acattgtctc caatgctagc tgcacaaccg 60
 gctgccttgc tctcttctgt aaggctcatca atgacaagtt cggatcgtt gaggggtctga 120
 tgaccactgt ccatgccatc actgctaccc agaagactgt tgatgggccc tcatctaagg 180
 actggagggg tggaagggtg gctagtttca acatcattcc cagcagcact ggagctgcta 240
 aggctgttgg caaagtgtt cctgtcctta acggaaagtt gactggaatg tctttccgtg 300
 tccaaccgt cgatgtttct gttgttgatt tgactgttag gcttgaaaag tcagcaacct 360
 atgatgagat caaggctgcg gtc 383

<210> 10007

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-B11

<400> 10007

cccacgcgtc cgcacacgag tccgggtccac cccagccgcc gccatgaagc gcaacccccg 60
 cgtcacgagc tcccgcggga agtgccgcaa ggcgcacttc acggccccgt cctccgtccg 120

ccgcgtgctc atgtccgcgg cgctatcgac ggagctccgc cacaagtaca atgtgcgttc 180
catcccgatc cgcaaggacg acgaggtgca ggtcgtgcgc ggcacctaca agggccgtga 240
gggcaaagtg gtgcaggtgt accgccgtcg ctgggtcatc cacgttgagc ggatcaccgc 300
cgagaaggtg aacggctcca ccgtgaacgt gggcatccac ccttccaagg tcatggttac 360
aaagctgaag cttgacaagg accgcaaggc gctcctcgac cgcaaggccc ggggccgcg 419

<210> 10008
<211> 427
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-036-Q1-K1-B12
<400> 10008

cccacgcgtc cgcccacgcg tccggaaaga gcagttccca aaccaagcag tgaagtacgt 60
gggcctggag gaagaagacc ccttgttcgt cctactcttg aacgaactga agaacctcat 120
gctgatacag atatatcagc tgttgatgcc tccacagttc aggacaaagg ggggccacca 180
gcagagcaag aaacttctgg aattttacct gtgttacagc ctttgagtcg taaacggctt 240
atcacatctt cacagacggt agacagtgcc tcgcaggggt aggctaata tgtcaatcct 300
ccatctaaga agcccaagga ggaagaatct tcacaagga ctagtgaact caaaagtgg 360
caaccacctc ttgggggatgt agcggcacag gtaaatgtgc ttccagccac tgatgaccta 420
gatggac 427

<210> 10009
<211> 444
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-036-Q1-K1-B4
<400> 10009

atacgtcca ttttataacc aaccggcggt ccatctgagg aggaccaaga aacatagaga 60
gagcgttct acgtccgagt cgtcgcacga ggtccctcgc attcgccggc ggcgccacca 120
accaagctca tacatctgaa ttgactagtc aaactcagtg atctctttgg ggactaatca 180
aactcaagaa ctaagtttca tgtctgatct cgacgtccag cttccatctg cttttgatcc 240

gtttgcagag gcaaagtctg aggactccag tgctggtgct ggatcaaagg actatgtgca 300
cgtgcgtatt cagcagcgca acggaaggaa gagtctgaca actgttcagg gcttgaagaa 360
agagtacagc tacaacaaga tcctcaagga tctcaaaaaa gagttctgct gcaatggtac 420
tgtagtccag gatccagagc tagg 444

<210> 10010
<211> 438
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-036-Q1-K1-B5
<400> 10010

cccacgcgtc cgccccacgcg tccgcttacg cgtggggcgga cgcgtgggag gacacgagcc 60

tacatgtctt gatggagcta catttccctca tgtcctacat gcccaactcc aaccttgctg 120
acatctatag cttcctcaag acctgcccga gtcctcagtt agagcgcttc tttctgcaga 180
tcccaacaaa caccggtgat gcattcacgg ataacttctt gaaggtgcag gagtagcacc 240
cgccaaaagg tggattataa aacctttctat tagacaagct gacaaatttc aatgagcacc 300
ctaagagat gcagctagta ccattgctgc taatacagtc tattagactg aagaaactat 360
ttctgattgc taccaaggag gatcaccctc aaggactgcg caaggttcat tcatatatgc 420
tgtctgattt tcataaaa 438

<210> 10011
<211> 444
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-036-Q1-K1-B7
<400> 10011

cggacgcgtg ggtgcagctg ttccggcgcg ggcgtccggt ggcagtgttc cggtcgcgag 60
ctgggcgggt atacgcagga ccagctggag gtgggcgacg tcctggagca gcacggcctc 120
aagtcgctt tgccttcga cctgcccgcg cgcaaacgcg gcgtcgccat ccgcttcaac 180
cctcgcaacg gccgtccct cctcccctac gcccttggtt ccacgatctt cctagacggc 240
gagcccaagg attctttgct gaagcccatc acgaagatgg tgattggggg cgccgctatg 300

actgtggtag ctgcagtcct attgaaggag gccaaagatgc ccgagtggct tcagtcatcc 360
aagctgggag ccgtgagctt cccaccatgg gtgctggctt gcatgggtcat cgtgttcacg 420
aggctccgga agagaacccat ggat 444

<210> 10012
<211> 443
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-036-Q1-K1-A2
<400> 10012

gcccgctcgtc cgctcgtcatg gccgcccgtgg aggtgtgctg gaaggccgcc acggggaagg 60
ccgacacgct cggcgactgc ccgttctcgc agagggtgct gctcacgctg gaggagaaga 120
aggtccccta cgaggatgaag ctgctcgacc tcgacaacaa gcccgaaatgg tttctgaaga 180
tcagcccaga gggtaagggtg cctgtgttca acgggtggtga tggcaaatgc attgctgatt 240
ctgatgtaat caccacaaacc attgaggaga agttcccaac tccatctctg gtcactcctg 300
tagaatatgc atcagtggga tcaaagattt tcccagcctt catcacattc ttgaagagca 360
aggatgctag tgatgggttcc gagaaggcgc ttctggatga gctgcaggca ctggatgagc 420
atctcaaagc tcatggcccc tac 443

<210> 10013
<211> 355
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3059-035-Q1-K1-G6
<400> 10013

cccacgcgtc cggcgacgag tgggtggact tccggaggcc caaccgcggc tgcgtcaggg 60
tggcgccggt tgccggctgc ggcgggttcgc acccccggc gcggctggtg tcgctgcccg 120
ggctggccta cttcaacgac cccgccacca gcctcagggc gctggagagg gtgagcgacg 180
ccgcgtgcag gaaggcgtgc ctggacgact gcgcctgcgc ggcggcgagc ttcgtctacg 240
gcaccgacgc cggcgacggc ttctgctacc tgcagtcgga ggtgctgtcg ctggaaacgt 300
cgcggccgga ggtggtgcac tacaactnca ccatgcatct caagggtcgg gccac 355

<210> 10014
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-035-Q1-K1-G9

 <400> 10014

 ggagaagatg gtgcttcggc ggaaggtaaa ggtaccgatg tggagatgaa agatgcggaa 60
 aatgctgaag acgagaagaa agatgtccca agtgcagga agactgagga agttgacgat 120
 aagaaagatg ctgaaaatgt ggagatgaaa gatgctgcag agaagactga ggaagttgac 180
 gataagaaaag aggaagcccc tactgtagat gcagcagaga atactgtgga aggtgatgat 240

 aagaaagagg agccccctgc agagaagact gatgagaaag aggaagcccc agctgtagat 300
 gcagcagaga agaatgagga aggtgatgat aagaaagagg aggagccctc tgcagagaag 360
 aagactgttg agaaagaggt ggtccctgct gtagatgcag cagagaatac tg 412

 <210> 10015
 <211> 112
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-035-Q1-K1-H1

 <400> 10015

 tgccttatgt tggaattata cataaaaaca aatacattaa anaaaaataa aaaaacaaaa 60
 aaataaaaag gaagaaacaa aataaaataa agaaaagaaa aataacaaat aa 112

 <210> 10016
 <211> 316
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-035-Q1-K1-H10

 <400> 10016

 ctcctgagaa gtcctagaca gtcaaacaac gcagcagcaa tgctttagaa gctccggtga 60
 aacgacgaga ctacttatcg ctagtctccc ataccattgg attacgggaa gatcatatga 120

aggcaattag aatggacgaa cagagcagca tatgtagccc atctacaatg caagaagact 180
 ggaaacgctc cgatagtaac gggaactcat gtaccagatc attgtcctga tgcattcatct 240
 gtttgccctcc atcaatatgg agatgctgct cgattgctcc tcatggagtt gttttcctta 300
 gaccatattg aaaatg 316

<210> 10017
 <211> 414
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-035-Q1-K1-H11
 <400> 10017

cagcagggca caacaactac aacaacttgt gctagcaaac cttgctgcct actctcagca 60

acagcagttt cttccattca accaactagc tgcattgaac tctgcttctt atttgcaaca 120
 acaacaacta ccattcagcc agctacctgt tgctacccc cagcaatttc ttccattcaa 180
 ccaactggca gcattgaact ctctgctta tttacagcag caacaactac taccattcag 240
 ccagctagct ggtgtgagcc ctgctacctt cttgacacaa ccacagttgt tgccgttcta 300
 ccagcacgct gcgcctaacg ctggcaccct cttacaactg caacaattgc tgccattcaa 360
 ccaacttgct ttgacaaaacc tagcagtgtt ctaccaacaa cccatcattg gtgg 414

<210> 10018
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-035-Q1-K1-H12
 <400> 10018

accactcgt ccgagaaggg ttcagctgtt ctgcgccctc tcaccaggac tctgactgct 60
 gttcgcgatg gcattcttga ggatgttgct taccagctg agattgtggg gaagcgtgtc 120
 agataccgctc tggatggttc caagattatc aagattttct tggacccaaa ggagaggaac 180
 aacactgaat acaagctgga gacctgcact gcggtctacc gcaggctgtg tgggaaagat 240
 gtgggtctttg agtaccctat gaccgaaaat gcataaatat gatgccctct ggatatctcc 300
 actctatttc gttgattctg aatgttatgt tgggtctccc tatgtacttc aaaaaacata 360

gttttgatgc taaagttgcc taggaatttg gtacggtgaa gtggcagtgg acgtgaacaa 420
tgtaag 427

<210> 10019
<211> 444
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-035-Q1-K1-H3

<400> 10019

ggcaatgggt gttaaccttc cggagattc tagtgtgtcc actgtgctct ctggacctga 60
agagactgag gaggaaggag gggatgacga tgagtccatt gttcatcaca ctgcaagtgt 120
tggtgatgaa gagggtttga agaaagcttt agaaggtgga gcagacaagg atgaagaaga 180
tgccgagggga agacgggctt tacattttgc atgtggctat ggtgagttga agtgtgcaga 240
aattctcctt gaggcggagg ccgcagttga tgccctagat aagaacaaga aactccgtt 300
gcactatgct gctgggtatg gtcggaaagg aatgtgtgga tcttctgttg aagtatggtg 360
ctgctgtcac gctccagaat ctggacggga aaaccncat cgaggttgcc aaactcaaca 420
gtcaagatga ggttctcaag ttgc 444

<210> 10020
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-H4

<400> 10020

cccatgcgtc cacgcgtgcg ttcgaggagc ccattccgat tggcctccat cctgaaccct 60
tcaaacgcag gttctttccc ggcaatgacc caaacgtcg gcactctcgg cccaagtgcg 120
cgctccgtcg acacgatctc cggctgcctc aaggccggca tgtccgtcgc ccggttcgat 180
ttctcgtggg gggacgccac gtaccaccag gagacgtgg agaacctcaa gctctccatc 240
aagtccacca acaagctatg cgctgtaatg ctctacaccg tgggcccggga actgcaggtg 300
gtgaacaaga gcgagacccc gatctccctc g 331

<210> 10021
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-H5

<400> 10021

cccacgcgtc cgcagatagc agcatagact gcacaatgcc gcaaccaaca atggcgtgac 60
 ggaatatcgc gcctgcctta ttctcgtagg tcttactgca cgtgctggta ccgggaccag 120
 tttaccgtag tgtacacaag ctattatagc atcagttcta tgcacgcgta catatgacca 180
 gcgacgcctt gtgtatgatg gcacccatgt actactgcgt atgcgatcca acacgcaatg 240
 gctactggac atataccgct atcagcttag gctctacgac aatcatggtg cttacgacag 300
 agactacctt tgctgcattg attgactcca aatataccag gcacaacaac tacgacaaca 360
 cgtgcgtagc acaccttgat gactactatc agcaacagat a 401

<210> 10022
 <211> 481
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-H6

<400> 10022

ggactgcctg gagccacgcg tgcgtccacg cagcgcgccg attccctgct aaaaacccta 60
 gcccatcagg gcagcgacct tggagagccg tctccaatgg cgctactccg agcgcgccg 120
 cgagcccttc cggcgccttc ctgcgcggcg gcggttctcc cccgtcgcgc cccgcacca 180
 ctacctcttc cgcgcgcctc tcgtcgggtc ctggaccgca tcgggctccg ctctttctcc 240
 gccgccgcgc ccaccgcgct gcaggcgccg cccatggggg ccaccctgtt cggcgggctc 300
 atggacaccc gggtcccgaa gcgcgcggcg ggcttcgcca accgccgga gagggctagc 360
 ttgcgcccc aaggctccgta ctactgggtg aagtgaagc ctgacgagcc cataccagtt 420
 agtcagccga accaggggag cgtacgaggg aggaaggaga agaagcggat caagcagcgc 480
 a 481

<210> 10023
 <211> 439

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-035-Q1-K1-H7

 <400> 10023

 gagctgtgct tctctgttgt ctcattgctc tggcagaagc tcatagcttc tcccgaaggc 60
 agatgtctgc agaaagtaca tcagctcacc aaggatggag gaaggttgtg gatgcacttt 120
 gtgatgtcgt ttcagcctca ccaaccaagg cctcagctgc tatcgttctc caggccgaga 180
 aggacttgca gccttggatt gctagagacg acgaacaagg ccagaagatg tggagagtca 240
 accaacgtat agtgaagctt atagcggagc tcatgaggaa ccatgacagc cctgaagcct 300
 tggtgatact cgctagtgtc tctgaccttc tacttctgtc tactgatgga atgcttgttg 360

 acggtgaagc ttgtactttg ccacagcttg agcttctcga agtaaccgct cgagcagtcc 420
 atcttattat tgaatgggg 439

<210> 10024
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-036-Q1-K1-A1

 <400> 10024

 caaaaaggca cttgagaagg caaagactga ggtcgaggat cgacggaacc tatacttggc 60
 tgangagggt gaaatacttg ctggaatacc agctgcagaa ggtgtgtcag atgctgacat 120
 gaataaacgt aattgggttag ctagaaggaa agcggagatg cttcagtctc caaaatttca 180
 tgtgtcgaga acaaggctta tcatctacaa tttgcctaag actatgacca ttaatgacgt 240
 aaagaagctt tgcagagaag cagtcatttc tcgtgctaca aaacaaaatc ctgtcatccg 300
 gaaggtgaat atcctgaaga atgaaaagaa aggcatacag aagcattcac gcggtgtagc 360
 ctttgttgat tttcaagaac atgaacacgc tcttgttgct ctaagggttc taaacaacaa 420
 tcctgaaact ttt 433

<210> 10025
 <211> 430
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-A12

<400> 10025

aatgttaata agccgctgga ggggtttcttt tgcccatgga aaggacccca agtctgatcg 60

ttggggctcg tctgatgcta ttgcaattgc taccacacct ctttctgatg atctccgtta 120

tttgaaatca tcagccctgg atatttggtt acttgatat gaatttccag aaacaataat 180

tgttttcatg cacaagcaaa tacatgtttt aagcagtcag aagaaaggaa atcttattgg 240

gacctcaag aaggctgcaa acgaggtgtg tgggtgtgac attgtgttgc atgtgaaaac 300

caagaatagt gatggtgctg acttgatgga tgacatagt catgctgctc gtaatcaatc 360

aaaatcagat aagccagttg ttggacacat agccaaagag gcacctgagg gtaagcttct 420

tgaaacatgg 430

<210> 10026

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-G5

<400> 10026

gagagagtgt gtgtgatcgg tacaaggatc accgctgtgc ctgcgcgtgc tgctgcaccg 60

aatcgagtca gatcctgtcc gaatccgagc taagggatgg caaccggtag tgaagcctcg 120

aaggcagctg aggctgtggt tgactggcat aaacacgaca gcaagaggat gctccatgcg 180

gtttaccgtg ttggggatct ggaccgcaca atcaagtact acacggaatg ctttgggatg 240

aaactgctga ggaaaaggga tgttcctgat gagaagtaca ccaatgcctt ctttggcttt 300

gggccagaga acaccaactt tgcagttgaa ttgacataca actatggcgt tgaccagtat 360

gacaattgga ccgggctttg ggcatttcgc aattgctaata gatgatgtgt acaagttagc 420

tgagaatatc aaatccaagg gtggtaagat caccgcgcg 458

<210> 10027

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-F12

<400> 10027

acttgaaggg tggtgccaag aaggttggtca tctctgtccc tagcaaggat gcccccggtg 60
ttgtcgttgg tgtcaacgag aaggagtaca agtctgacat taacattgtc tccaatgcta 120
gctgcacaac caactgcctt gctcctcttg ctaaggatcat caatgacaag ttcggtatcg 180
ttgaggggtct gatgaccact gtccatgcca tcaactgtac ccagaagact gttgatgggc 240
cctcatctaa ggactggagg ggtggaaggg ctgctagttt caacatcatt cccagcagca 300
ctggagctgc taaggctggt ggcaaagtgc ttctgtcct taacggaaag ttgactggaa 360
tgtctttccg tgtcccaacc gtgatgttt ctgttgatga tttgactgtt a 411

<210> 10028

<211> 117

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-F2

<400> 10028

ggtaaagcct tggcatatcg atgagatgag gttcgtctct aggtctaggt tgtttgtgtc 60
tgtaccattg atggttttacc gttgcatttg gtagcggaca tatcatttga gtttctg 117

<210> 10029

<211> 252

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-F3

<400> 10029

cccacgcgtc cgtctggaca tcgagaccct tctgcttcac cactgactgc atcctgctgt 60
tgaactagct cagtttgagc acaggattac atttcataca ctttaccagc tcttctaaga 120
agccctcagg ataaccgaaa tggccaggct gtataaagtg tgcacacctga catactcgtg 180
aatgtcagat ctaagatgta agatacgggtg atttaagacc gacgcattga cagtcgctta 240
taacgtcacg ac 252

<210> 10030

<211> 397
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-035-Q1-K1-F4

 <400> 10030

 gcaactggcg agactgcaca tgggctgggc acctaggtgc aatggttggc acaaaacatc 60
 agggcacaac aactacaaca actcgtgcta gcaaaccttg ctgcctactc tcagcaacag 120
 cagtttctgc cattcaacca actagctgca ttgaactctg ctgcttattt gcaacaacaa 180
 caactactac cattcagcca gctagctgct gcctaccacc agcaattgct tccattcaac 240
 caactggcag cattgaactc tectgcttat gtacaacaac aactactacc attcagccag 300
 ctagctgctg agagccctgc tgccttcttg acacagcaac agttgttgcc gttctacctg 360

cacgtgcgc ctaacgttgc accctcttac aactgca 397

<210> 10031
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-035-Q1-K1-F5

 <400> 10031

 cccctacgag gtgaagctcg tcgacctcta caacaagccc gaatggtttc tgaagatgag 60
 cccacagggt aaggtgcctg tgttcaacgg tggatgatggc gaatgcattg ctgattctga 120
 tgtaatcacc caaaccattg aggagaagtt cccaactcca tctctgggtca ctctgtaga 180
 atatgcatca gtgggatcaa agattttccc agccttcatc acattcttga agagcaagga 240
 tgctagtgat ggttccgaga aggcgttctt ggatgagctg cacgcactgg atgagcatct 300
 caaagctcat ggcccttaca tcaacgggga gaacgtatca gcagctgatc ttagcctggg 360
 gccaaagctc ttgcacctgc aggtcgcact ggagcatttc aaaggctgga agatcccaga 420
 aaacct 426

<210> 10032
 <211> 453
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-F6

<400> 10032

```

gcgccctgcc ggagagaaag ttaccatgt cttcgacaat caattccctg tagcgggtgga 60
acgattgcag tttgatgaac aactctctat ggaaaatgtg acgacgctta taacagaggc 120
tgatggatac cagcctcact tgatagctcc agaacaagga tatagacgcc ttatagaatc 180
ttgtcttatt agtatcagag gtccctgctga ggcggctgtt gacgcggtcc atgcaattct 240
caaggacctt gtccgcaagg ctatcaatga aacacatgaa ctgaagcagt ttcccaccct 300
tcgtgtggaa gtaggcaatg cagcttttga gtcattggat agaatgaggg atgaaagcaa 360
gaaaaataca ttaaagctag ttgacatgga atgcagctac ttgacagtag atttcttcag 420
gaagcttcct caggatgttg agaaggggtg aaa 453

```

<210> 10033

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-F8

<400> 10033

```

cctcaagatc cagtacactc ggggtgccgtg caactggcga gggctggaca tcggggttgaa 60
gggtggacgcc ggctcgaacc cgaactactt cgcggtgctc atcgagtacg agtccggggga 120
cggcgagctg gagtccgtgg agctcatgca gcgcggcggc ggcgggcggg gggcgtgggc 180
gccgatgcag cagtcgtggg gcgcgggtgtg gcggtacaac tccggcgaca ccctgcaggc 240
gcccttctcc gtccgcctca cctccggctc cggcaggacg gtcgtcgcca gcaacgtcat 300
ccccgcgggg tggacgcccc gcgccacgta ccgctcggtc gtcaacttcg acaactaacg 360
aggacggacg gacggaccga aattaacgga cgccc 395

```

<210> 10034

<211> 455

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-035-Q1-K1-G1

<400> 10034

ctgaagattc ggcgatggcg gcgacgatcc aatccgtgaa ggcgcgccag agctgtgaca 60
gccgcggcaa ccctacagtc gaggtcgacg tgttttgctc agatggaacc tttgcaaggg 120
cagctgttcc cagtggagca tcaactggtg tatatgaagc tctggagttg agggatggtg 180
gctctgacta tttggggaag ggtgtctcca aggctgtgaa caatgtgaat tctgttattg 240
gacctgctct gattggcaag gaccctacag cacagactga gattgataac ttcattggttc 300
aacaacttga tgggacaaaa aatgagtggg gatgggtgcaa gcaaaagctt ggtgctaattg 360
cgattctggc tgtgtcatta gctgtttgca aagctggngc tagcatcaag aggattccct 420
tataccagca cattgccaac ctgctggga acaag 455

<210> 10035
<211> 409
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-035-Q1-K1-G10
<400> 10035

cccactcgtc cggccatata gccacagtct gcacggagca gattggtcag aaatgcgaac 60
gatttttcag cccctcaaac ttcattgaagt ttgagaagga tgattctggg aggattgcta 120
tcctaccatt ttattcttat gtcattgcga cagtttctct tactcaagca agaattgata 180
tgagtgaagt tgatgaggat tctgatggtt tccttcagcc tcattgaaatg gaagcatata 240
ttagaggact catccccaat ttggcgcaat tgccgatata gccactgca tttgttcaga 300
tgtactgccg catagctgca cgcaagttct tttcttctg tgatccacac agacggggga 360
aagcatgcat aaagaaagtg ttgctgatca attgtcttca ggagctaatt 409

<210> 10036
<211> 406
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-035-Q1-K1-G11
<400> 10036

gcagagagct atgttttccc cattgtcgac ccacactatt gcatactgag cccaggggtc 60
gccagcagc catggcgccc aaactctctg ctcccatcgt actccttggc gcagtgggag 120

aagctaccat gggcgccacc cgacctgcag cttcgcttg cgcgacgcca gaaattgcag 180
catcagctcc taccctctct acatggccga cgctcatagc tccagcagac gctcctccat 240
acttcccatg gcgtactgca tcagacgect tgaagcaacc acgccatggc ttgcgactcg 300
gagtcctacc tgcttgcatg ctgatgetca gtgcccatgg tgcttgatag gtgctcgacg 360
aaatgtgcgg caaccacgtc ggcttcgtgc actgtcgact cgctgg 406

<210> 10037
<211> 409
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-035-Q1-K1-G12

<400> 10037
gcaacataga aagcacaata gtgtaccaac aatggtagcc aaaatatttt gcctccgtat 60
gctccttggc ttttctgcaa gtgctgctac gacgaccatt ttcccgcaat gtcacaagc 120
tctatagct tctcttcttc cccatacct ctcaccagcg ttgtcttcag tatgtgaaaa 180
cccaattctt caaccctaca ggatccaaca ggcaatcaca gcaggcatct tacctttatc 240
acccttgctc ctccaacaat catcagccct attacatcaa ttacctttgg tgcatttatt 300
ggcacaaaac atcagggcac aacaactaca acaactcgtg ctagcaaacc ttgctgccta 360
cgctcagcaa cagcagttac ctttggtgca attggttgga caaacatc 409

<210> 10038
<211> 433
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-035-Q1-K1-G2

<400> 10038
gcattcagaa acacacctag cgaagcgac tagcaacgac ctaacaacaa tggcttccga 60
gacattatcc ctcccttgcgc ttcttgccct ttttgtagt gcaacaaatg cgttcattat 120
tccacaatgc tcaattgctc cgagtgccat tattccacag ttctccctc cagttacttc 180
aatgggcttc gaacaccag ctgtgcaagc ctataggcta caacaagcgc ttgcggcgag 240
cgtcttagaa caaccaattg cccaattaca acaacaatcc ttggcacatc taaccataca 300

aaccatcgca acgcagcagc aacaagcact gagccaccta gccgtggtga accctatcgc 360
 ctacttgcaa caacagctgc ttgcattcaa cccacttgct ttggcaaacg tagctgcatt 420
 accaacacaa cca 433

<210> 10039
 <211> 442
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-035-Q1-K1-G4
 <400> 10039

taccggttcg gactggctgg agccacgcgt ccgccatcag ggcacagcag ctgcagcaac 60
 tcgtgctacc tgtgatcaac caagtagctc gtggcgaacc tttctcccta ctctcagcaa 120
 caacaatttc ttccattcaa ccaactgtct aactgaacc ctgctgctta ttgcagcaa 180
 caactattac cattcagcca gctagctact gcctactctc agcaacaaca acttcttcca 240
 ttttaaccaat tggccgcact gaaccccgct gcttatttgc agcagcaaact actactacca 300
 tttagccagc tagctgcagc aaaccgtgct tccttcttga cacagcaaca gttgctgcct 360
 ttctaccagc agtttgccgc taaccccgca accctcttac aactacaaca attgttgccc 420
 tttgtccaac ttgctttgac ag 442

<210> 10040
 <211> 411
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-035-Q1-K1-F11
 <400> 10040

caggtgaggg ataaacaaat tgtgcgagta cttgggaagg caccaacaat agcagcggct 60
 gcctacttga gattagcagg aagacctccc gtccttcctt taaatactct atcttattca 120
 gagaacttct tgtacatgct ggactctttg ggtgacagaa catataaacc aaatcctcga 180
 cttgctcgag ctctagatat tctttttatt ctgcatgctg aacatgaaat gaactgctcc 240
 actgctgctg ttaggcacct tgcttcaagt ggtgtggatg tattttactgc tctttctggg 300
 ggtgttgagg ctctatatgg tcctctgcat ggccggcgaac acgaggcagt acttaaaatg 360

ttaaatgaga ttggaagcat ggaaaatatt ccagatttca ttgtaggagt g 411

<210> 10041

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-D7

<400> 10041

gagattgtga aggaagtctc ttcctacctg aagaagggtg gatacaaccc tgatgagatc 60

tacttcgttc caatctctgg ttttgaagggt gacaacatga ttgagagggtc caccaacctt 120

gactggtaca agggcccaac cctacttgag gctctggact tgatcaatga gccaaagagg 180

ccttcagaca agccccctgg tctccccctt caggatgtgt acaagattgg tgggtattgga 240

actgtccctg ttggacgtgt tgagactggt gtcattaagc ctgggtatggt tgttactttt 300

gggcctactg gtcttactac tgagggttaag tccgttgaga tgcaccatga ggctctccag 360

gaggcccttc ccggtgacaa tgttggtctc aacgtgaaga atgttgctgt gaatgatctg 420

aagcgtgggt atgt 434

<210> 10042

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-E1

<400> 10042

ccgacacatg cgtggcaaac gtagttgcaa accaggcaca acaacagctg caacagtggc 60

tgccagcgct caggcaacta gccatggtga accctggcgg ctacctaaa cagcaacagc 120

tgctttcatc tagcccgctc gctgtggcca atgcacctac atacctgcag caacaattga 180

cgcgacagat tgtaccagct ctgactcagc tagatgtggc aaaccctgct gtctacttgc 240

aacagctgct tacattcaac caactgacta tgtcgaactc tgatgtgtac ctacaacagt 300

gacgacagtt gcttaatata ctagcaatgg ctaaccatt gg 342

<210> 10043

<211> 411

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-035-Q1-K1-E11

 <400> 10043

 cccacgcgtc cgcccacgcg tccgaagacc ctgcgttgct tcaagggagt caaaagagtg 60
 cgcgttgtgg gtcaggcgaa tccggttaag aagcagactg ctgccacgct gagttacata 120
 cagtcttggg acaagttgca gtcggagata agaaaccgac gtgctttcat ggtcaccgaa 180
 ggacgcaaca ggaagaagaa gcaggagaac caaatgaaac ttgaggcaaa actgcataat 240
 ttgcagattg aatggaatgg aggcctggat actatggatg aaattcttgc taggatacaa 300
 caacgggaag aagcagcagt aaagcgtgag cgagccatgg cgtacgcgtt caaccatcag 360
 tggagagcaa ggtctgccac aagtctagga aacttcagct atgaagtcgg t 411

<210> 10044
 <211> 411
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-035-Q1-K1-E12

 <400> 10044

 gaccaactag caacatagaa agcacaatag tgtaccaaca atggcagcca aaataggttg 60
 cctccttatg ctcccttggtc tttctgcaag tgctgctacc gcgaccattt tcccgcaatg 120
 ctcacaagct cctatagctt cccttcttcc cccgtacctc tcaccagcgg tgtcttcggg 180
 atgtgaaaac ccaattcttc aaccctatag gatccaacag gcaatcgcag ctggcatctt 240
 acctttatca cccttggttc tccaacaatc atcagcccta ttacagcagt tacctttggg 300
 gcatttattg gcacaaaaca tcagggcaca acaactacaa caacttgtgc tagcaaacct 360
 tgctgcctac tctcagcaac agcagtttct tccattcaac caactagctg c 411

<210> 10045
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-035-Q1-K1-E2

 <400> 10045

cccacgcgtc cgccccacgcg tccgccactg caagctctgt gaaacaagcc attgagtggg 60
ggaatgattt ccatcttttg aatactgaaa agctttgtca aatgatggaa atcatttcac 120
cactgcaagc tctgtgaaac aagccattga gtatccta atcattttttt tacaatagat 180
atattagaac tgcgcatctta tttgagagtt atactatctt acttaccagt acagttcctt 240
aactggttgc tgcagacctc ttaaaaaatg tgggggtcagt gatggagaga tatgcatgat 300
agcaaacatt gtgcctgaga ccgttgaaga ggtttacgca ctaatgccat ctctcaaggc 360
taataggtca gctatcgaaa gttcagtcac cgagggttctt accgtcctcg caaacatatt 420
agcttgc 427

<210> 10046
<211> 210
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-035-Q1-K1-E3
<400> 10046

cgagagcgta cgctgacctt tttgcatgca ctgtacgtgg acgtgcccat tcccgtcgcg 60
ggcgaaccaa cgcgacacct acacctcgct cgctccgtagc catcgttgct cttecgctcg 120
atgtcacctg taacgcgcgt aattctgcac tctaagctga tatgctgcta tcgctaacca 180
gctcaacacg ctccacggat gaacgatagc 210

<210> 10047
<211> 174
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-035-Q1-K1-E4
<400> 10047

ccgcgcgctg cgcgagactcc aactgcatte ttctacctca tgtaaccaac agcaatactg 60
cccataatca gattctgtat gagcaggcac ttaactcacc attggtctta gctggcgaaa 120
tcatcatgca ccatactcgt atctccatcc ttcaagtact tgctcttctt ctta 174

<210> 10048
<211> 455

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-035-Q1-K1-E5

 <400> 10048

 cccacgcgtc cgatgactcc aacagcaacc gtctgcctca tgtcacggac agcagaacga 60
 cccataggag gatactgaga gaaggtctca accaccatgg gcttagtggg aatcatcttc 120
 accataccgg catcaccatt cttcaggaac ttgggctcct tctcaagctc cttgccagac 180
 cgcctatcga tcttggttat gagctcagca aacttgacag caatgtggga ggtgtggcag 240
 tccagcactg tggcatagcc attgccaatc tgcccagggt ggttcatgat gatgacttgg 300
 gaggtgaagc tagcagccta cttggcaggg tcatecttag agttggaggc cacgtaccca 360
 cgtttgagat ccttcacagc aacgttcttc acattgaagc caacattgtc accaggaagg 420
 gccttccgga cgcgtggggc atttacaccg tgtga 455

<210> 10049
 <211> 417
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-035-Q1-K1-E6

 <400> 10049

 gtgttgctca gagtttaagt tcttctgccg ttgaggagct tgtaaccctg aagagcactc 60
 aaatgcttgg gctcagtact tgctctatgg ctggagctgc gattttgcgg atactgcaag 120
 tcctatctac actaacttcg tgtgtgatgg atagtagaca tgagcaagat ttaggacagg 180
 aagagcagtc ttttctgtgg gatctgaatg ctggctctca acctttgtgg caagagttaa 240
 gtgattgtat aagtgccaca gaggcaaaac ttgtacacaa ttcatcattc gcttcccatg 300
 ccccatcggt ggatgcttta gcagttagtg cttcatcattc tgttgcttca ccgcttcctc 360
 caggcactca gcgcttggtg ccgttcattg aatcatcctt tgccttatgc gagaagc 417

<210> 10050
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-035-Q1-K1-E8

<400> 10050

cccacgcgtc cgacaggatg aggactaccg tgcattgctgc gctttgcatt gtgcttgtga 60

taatgtcttc aacctgtca tcttgcgagg acgatgagaa ggtatctatc gcatgtgaca 120

caggatgcaa tgccgcgac tcccgcctca aatgcttctt gatggcctat tctgaagggg 180

aagtgttggc cagcagcaac tgcgaaacgc cgaccagggtg cggctgcgtg tttcgtcaca 240

aacaagatgc agcccttata gccggcgacg ttggcaacaa aaagggatac tgatggcaga 300

cgtgtacttc ttggttgaat aatactgcta gaattaatat gggcaccaac gaaatatcta 360

taatgttatt cttcagtgtg atgcttccag catgttctgt tttagtataa ctaaatatct 420

atctttcccc ccc 433

<210> 10051

<211> 407

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-035-Q1-K1-E9

<400> 10051

cccacgcgtc cgccccacgcg tccgccccacg cgtccgcagt tacttcaatg ggcttcggac 60

acctagctgt gcaagcctac aggtacaac aagcgcttgc ggcgagcgtc ttacaacaac 120

caattaacca attgcaacaa caatccttgg cacatctaac catacaaacc atcgcaacac 180

aacagcaaca acagttccta ccagcaactga gccaaactaga tgtggtgaac cctgtcgctt 240

acttgcaaca gcagggtgctt gcatccaacc cacttgctct ggcaaacgta gctgcatacc 300

aacaacaaca acaattgcaa cagtttctgc cagcgctcag tcaactagcc atggtgaacc 360

ctgccgncta cctacaacag caacaactgc tttcatctag ccctctc 407

<210> 10052

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-F1

<400> 10052

cggacgcgtg ggcgacgcac cacacgcaca cggacaactc cagcagcggc tccgagcgcg 60
 tgctctcgcc gtcgccggac ctgcccgaac gcgaccacgc cgagagccag cccgccgccg 120
 ccgggtggtg gcctgtcgga agcgactggg gcagcgccgc cgaggacggg ttcattggtcg 180
 acgtcgacgt cgacgacggg agctcgctgt tcgggcccgt gtccccgggg ctgttcgcgc 240
 gcgtcgacgc cgccgcgttc ggttcggcg acatgctcgc gtcgtacctg cacaaaccgt 300
 tctgatgcaa cgcgacgcga gcgcggggc accccgcgcc tgcgtgctcc tctaggccac 360
 tgaccactga catggacatt ctggtcgtcg tctagctcgg ttcaggacga atcgagagcc 420
 ggccggtcta ggtgtagtgc tgcgaaacca acacca 456

<210> 10053

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-D6

<400> 10053

cccacgcgtc cgtgcgcctc tacatttctt ctctctctgc tcttcgcct ccgcctgagc 60
 catccaagac agggatcgcc atgtcggact cggaggagca ccacttcgaa tcgaaggccg 120
 acgtctggggc gtccaagacc taccgcgacg aggctggcac cgtccgtaag aacggcttca 180
 tcgtcatcaa gaaccgcccc tgcaaggggtg tggaggtttc tacctccaag actggttaagc 240
 atggccacgc caaatgccac tgtgtcgcca tagacatatt caatgggaaa aagcttgaag 300
 atattgttcc ttcacacac aactgtgaca ttccgcatgt gaaccgcact gagtatcagc 360
 tgattgatat ttctgaggat ggatttgtga gccttcttac ttcagatggc agcactcagg 420
 atgatcttag actcccaact gatgagact 449

<210> 10054

<211> 142

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-C12

<400> 10054

cagttcacta acaagtgatt tcgtgtgtaa ccatgagctg gtcgcattcg cgtcccgtct 60

gatccaacaa caaacattgt ctcacaatgt gattgattgt agaagcaagc tttgtgcaca 120
 gggcgatggt gctcacttgt gg 142

<210> 10055
 <211> 384
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-C2

<400> 10055

cgcgccgga tggctggacc gacgcagctg ccgtgcggct agtcgtcgcc ctcccgttcg 60
 ggttcgggggt cgagaggttc tacggcggtc gggggcggtg gtgagcggat cgagatggcg 120
 gcgtcggatg ttgagtaccg ctgcttcgtc ggcggcctcg cctggggccac ggacgaccac 180

tccctccaca acgccttcag cacctacggc gaggtcctcg agtccaagat catcctcgat 240
 cgggagacgc agaggtcccg cggttcggc ttcgtcacct tctccacgga ggaggcgatg 300
 cggaacgcca tcgagggcat gaacggcaag gagctggacg gccgcaacat caccgtcaac 360
 gagggccagt cccgcggcgg tcgt 384

<210> 10056
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-C3

<400> 10056

ctagaaatac tgcagaactg gagccaaagt tagatgcttg ccgtccatct cgattaaagc 60
 cctggaatga cagatgttta ccgaagaaca agatttgctt ccattgcatt tatggttgta 120
 ccattcacca gcttatgggtg gcacgtagga tggcattgtc atgcactcat gctaaaacga 180
 tgaagactgt ttaatgtaga cctagatgat ctttgcggtg gggagaaaag tgccagtttg 240
 caaacttata gcccaggaaa ggagaagtgg tttaagaaat cgtttggatt caacatattg 300
 gatttatggt gagaccgtca catgattttt atttgtatgt gggcaactac tcgtgttagc 360
 gttcaggaaa actcatacat tcggatgttg caaatcgtc ttcaaggatt tttgat 416

<210> 10057

<211> 455
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-035-Q1-K1-C4

 <400> 10057

 eggacgcgtg gggcacaata gtgtaccaac aatggcagcc aaaatatttt gcctcctgtg 60
 ggctccttgg tctttctgca agtgtgtgta cggcgaccat tttcccgcaa tgctcgcaag 120
 ctectatagc ttcccttctt ccccggtacc tctcaccagc ggtgtcttcg gtatgtgaaa 180
 acccaattct tcaaccctac aggatccaac aggcaatcac agctggcatc ttacctttat 240
 cacccttggt cctccaacaa tcatcagccc tattacatca gttacctttg gtgcatttat 300
 tggcacaaaa catcacggca caacaactac aacaacttgt gctagcaaac cttgctgcct 360
 actctcagca acagcagttt cttccattca accaactagc tgcattgaac tctgcttctt 420
 atttgcaaca acaacaacta ccattcagcc agcta 455

<210> 10058
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-035-Q1-K1-C5

 <400> 10058

 gatggatatg cgcttggact gcacgcacca gggttcttcg acaaggtgct acatgtgcgg 60
 aaatgtcttc tgcagagtga gccagcagat aagggtcttg cagttgttca agaaacctgg 120
 atggatcctg ccataggcct cacaccttat gatgtccata agcatgttgg gtttctcaag 180
 catctgatga taagaactgg aagaaacatc agcactggaa ctccagaagt aatggtcaat 240
 tttgtgacgt catgttataa gccagatgta ttgatgcctc ttgttgataa aatcacaaaa 300
 atacctgaag tggttagtgt cataaataat gtgaactcgt ctgttggtta ttcactctgt 360
 ggtgaacaag aatatacttt gtacgggaag ccaaacatta cagatatgtt gagaggactt 420
 gcgttccaga tatct 435

<210> 10059
 <211> 432
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-C6

<400> 10059

```

cccacgcgtc cgccccacgcg tccgatttga atgcccata ga tcaaaaagcc actatgagtc 60
ggacggggcgc aacttggttat atatctaggg atgggatgac gtttggcatg tactccattt 120
tgaaagtgtc caagtgcagac ttatatacaca tatgcagttg agagatggaa ttaataataa 180
gagcaaacgc aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaat aacaaaatac 240
aaaaagataa aaaaaaaaga ggacatctct gataaagaaa caaaaagaac atgaaaatgc 300
aaaaaaaaaa gggggggggcc cccaattttt ctttatcttt tcctttggga aacggggccc 360
cccccccttg gggcaccaaa atttttgatt tgggcccccc caaaattttt tggaaagccc 420

```

ccttttgggg gc 432

<210> 10060

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-C7

<400> 10060

```

cggacgcgtg ggccggacgcg tgggcggacg cgtgggtttg caacaacaac aactaccgtt 60
cagccagcta cctgttgctt acccccagca atttcttcca ttcaaccaac tggcagcatt 120
gaactctcct gcttattttac agcagcaaca actactacca ttcagccagc tagctggtgt 180
gagccctgct accttcttga cacaaccaca gttgttgccg ttctaccagc acgctgcgcc 240
taacgctggc acctctttac aactgcaaca attgctgcca ttcaaccaac ttgctttgac 300
aaacctagca gtgttctacc aacaacccat cattggtggt gccctctttt agatttctta 360
tgagttatag ttcaataata aaagtttttg tctgatgttt gtggcttccc agaaataaga 420
aagtacattt ctagattc 438

```

<210> 10061

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-C9

<400> 10061

cccacgcgtc cgggcgagcg caccgtgttc tccgccgacc cggccttcaa cgcctgctg 60
ctggccgcgg agggccgcgc cgtgagctgc agctaccctg cgtccatcgc cagctgctg 120
ggcccgcggt cgtgctgct caccctgggc cccgcgcaca agcgctcca ctcgctcacg 180
ctgaccgcc tgggcgcgc ggctcgccg ccgctgctgg cgcacatcga cgcctcgtc 240
ctcgccacca tgcggggctg ggaccgccc ggcgccgtgc gctcctcga cgaggccaag 300
aagatcacct tcaacctcac cgtgtggcag ctcgtcagca tcgagcccg gccgtggacc 360
gagagcgtcc ggcgcgagta cgtgaagctc gtcgacggct tcttctcca 409

<210> 10062

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-035-Q1-K1-D1

<400> 10062

gagggtcaag acgtacgagg ggcgtccgcc gccgtacgac aagaccaagc gtatgggtgat 60
cgctgacgct cttaagggtc tgaggctaca gcttgacac aagtactgcc tctcggcga 120
gctctctaag gaggtcgggt ggaactacca tgacaccatc agggaaactg aggagaagag 180
gaaggagaag gccaagggtg cctacgagag gaagaagcaa ttggccaagc tgcgtgtcaa 240
ggccgagaag gcagccgagg agaagttggg gtctcagttg gagattcttg ccctatcaa 300
gtactgaaga gctgtgcttt gtcacagtt ttggggaaca tctagtcttt gttttaagt 360
ttcggttaaca gtttgtgaca gtataatctg gtaaaccgtg ttattnttct gccactccta 420
tttgaacaca ttttct 436

<210> 10063

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-D10

<400> 10063

attcctccca acaccacctc gcttgcgac ttcgtagcct ccgtcgcgtc gagcatgtat 60
catgtcggcc tactgcggaa agtacaagga tgagctcatc aagaatgctg cctacattgg 120
cacccttggc aagggatatcc ttgtgtctga tgagtccact ggcaccattg gcaagcgctt 180
ttccagcatc aatgtcgaga acgttgagga gaaccgccgt gccctccgtg agctcctatt 240
ctgtgcctt ggtgtctctc agtacatcag cgggtgtgac ctcttcgagg agaccctgta 300
ccagaagacc aacgatggca agccttttgt tgatgtcttc aaggagggag gcgtgtctcc 360
tggcatcaag gttgacaagg gcacca 386

<210> 10064

<211> 407

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-035-Q1-K1-D11

<400> 10064

cggactcgtg ggggattggc agttggatct tactgggatt gcactagctt ttgtacgggtg 60
atgtgctctt agcatgtttg caatgaatat actggaattc ataccatttt agttgtgtca 120
tgctacaggg ccatttttgt acttttcttc atggagcatc tagcaatcac agccggctat 180
gtgttcaaca tcaaagggtg tctcgcagct ccaccagaa ctatgctctt tctaggaagg 240
atTTTTctcc tataactcaa gatgtggaag gcttcttca caatgttgtt aacatggggt 300
ttcttgaccg tctgaaatta gcgtggaaga taatgttttc tgcaccaacc acaaaggata 360
cctccaatgc aaacatcgca naacagaggc ttaagatgat cctgttc 407

<210> 10065

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-D12

<400> 10065

cccacgcgtc cgggatgccc taaatgcaac caaggctgct gttgaggaag gtattgggggt 60
tggtggagga tgcacccttt tgcggcttgc agctaaagtc gatgccatca aggatacact 120

ggagaacgat gagcagaagg ttggagctga aatagtaagg agggccctga gctaccact 180
 taaattgatt gctaaaaatg cgggtgtcaa tggcagcgtc gtcactgaga aggtcctttc 240
 taacgataac ttcaagtatg gttacaatgc tgctactgga cagtacgagg acttgatggc 300
 tgctggtatc attgatccta ctaaggtggg gagatgctgt ttggagcatg ccgcgtcggg 360
 ggccaagacc ttctgacat ctgatgttgt ggtcgtcgat at 402

<210> 10066
 <211> 452
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-D2

<400> 10066

gtacctcaga agcttggaga gcctaaaatc aaggagccac cattaaaact caagaatgat 60
 gctgagaaaag cttcgaatgt tgtttctgat ggaagagagg agcataagtt aaaagtgcc 120
 acatcagaaa cttcaaagtgt ggtttatgat ccaagtccaa gggatgggca gaacttagat 180
 tcatcaccga cagctgtacc tttggctggt acaatgaata aaaaagagca tgtgattgat 240
 atggaaaagg ctgataatct tggtgaggac caactgcctc ctccgcagcc aatggcactg 300
 cggactgaaa aagtcactgt caatcccagt gtacgtacaa gaaggggaag agtaccttca 360
 gttgaaaagg tggaatcgac gactactgtc aagtcctttt ccattgcctc ctttcaacaa 420
 tataccaata gtttcagtga ggaaaatctc at 452

<210> 10067
 <211> 299
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-D3

<400> 10067

cccactcata cgctcacaca tcttcccatg catgcgcgga cacttgtaat caaaattggg 60
 ggtaaatctt cttcaaagtgt tgcactctgat actcataaat gagcatcaga taaaaacgcc 120
 aacatcacta cacttctaaa tgtaacttat catccaagtc caacgctatc tcactactta 180
 gattcatcac ctaccgatcc acttttgcca ggtacaatta ataacacata gcacgtaatt 240

tatatatcca aacctgatta ttacgacgtc taccaactga atactcctca tacaccgac 299

<210> 10068

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-D4

<400> 10068

gaagattgag tcaattgcta agctgtatgg tgctagtggc gttgaatatt ccgagcaggg 60

tgaaaagcag attgagatga tcaccaagca agggttatgc agcctccgca tttgcatggc 120

gaagactcag aactcattct cacatgtacc gtacatgaag ggcgctccga ccaggctgtg 180

ctatgtcgat aagagacgtg agggccaaca tcggcgctgg gcacatctac ccgatcgatg 240

ggcaccatga gcacgatgcc tggccttctg accagaccat gcgtttacca gatcgacgtc 300

gacactggca tcgggaaggt catggggctg tcatgaattg aacgacgtga tggatcatt 360

cagagaacgt atattcgggtg gcatccctgg atcgagt 397

<210> 10069

<211> 465

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-D5

<400> 10069

gttggtgatg aacatttcaa tactgtactc ctgaactgtt atgatgcaat tggcataggg 60

cttatgatca gaataattca tcagcaccag ctcatcatgt ttaagcggcg aatcccatgt 120

ttggactctt acctagacaa agttaatatg tcaactctggc ctcgcttcaa gatggtgttc 180

gacttgcatt tgaacagctt gcgaaatgca aatattaaaa cactttggga ggatgatgtc 240

catccacact atgttacaag gagatatgct gaatttacag cttctctagt tcattctaat 300

gttgagcatg gggacgggtca gcttgatcta aatttgagc gattgcggat ggccattgag 360

gatttgcttg ttaagttggc tcaagatgtt ttccaaaccg aagctacaaa ctgtctttct 420

gataaacaac tatgatttaa caatttccat tttgaaggaa gctgg 465

<210> 10070

<211> 384
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-035-Q1-K1-C11

 <400> 10070

 ctagegcacg agctctccgg accttggaga tccccaggag cgagatcagc gactccgtgg 60
 tggaatccgt ggcgccgcgg ctgccgaacg tcactttcct cgacatcagc agctgcaacga 120
 agatgggggc ccgcggcctg gaggcgttcg gcaagcactg caagtccctg gcggggctgc 180
 ggccgggtgat gcacccgata gacctggcgg acagggcgtg ccagcacgac gaggcgcacg 240
 ccacgcgtg cagcatgccc aggctgcggc acctggagat ggggtacatg ctgggtggcga 300
 cggaggcggg ggccggagatc ctggggcggg gccgcgagct caggttcctg gacctgcgcg 360

gctgctgggc ggtggacgac aagc 384

<210> 10071
 <211> 420
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-035-Q1-K1-A9

 <400> 10071

 acgcgtccga aaacatttcg gtctcatctc cgtccacatc cgtcctccag cactccagct 60
 gcatcggcga ggaccgccgt agcgatttgc gaagcaaggg acgggagagg aacccgagga 120
 aggcgaaaat gatctaccgc aactggtcgc tgctctcgtc cacagtcgtc atttggggcg 180
 gcgtcgccac cgccggcctc gccggtatct tctcttggg cggcaaggag aaattcaatg 240
 gttatctgtg ccgcgaaggc gagaggctta ggcagcagga cagagccgcg atgggccgaa 300
 gctaagcggt agcttctttg gtatctcaag ggagcaatag cccttcgaaa tttcacaaga 360
 ttctgcgctc cctaccagaa caagtccta tctagggact aggatggaat ccaccttct 420

<210> 10072
 <211> 409
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-035-Q1-K1-B1

<400> 10072

gctgaatttg aagaaaatga agtctatgca atcgatattg tcaccagcac tggggagggg 60
aagcccaagt tattggatga gaagcagacc accatctaca aaagggctgt agacaagaat 120
tataacctga agatgaaagc gtcaagattt attttcagtg aaatcagcca gaagttccca 180
atcatgccct tcaactgctag ggcattagaa gagaagcgtg cacgcttagg cttggtggaa 240
tgcatgaacc atgagctatt gcagccgtac cctgtacttc atgagaagcc aggtgacctt 300
gttgacacaca taaagttcac tgtgctgcta atgcccaatg gatcggatag gattacatca 360
tatccgtac aggagttaaa gccacaacaaa tccattgaag acaatgctg 409

<210> 10073

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-B11

<400> 10073

cggacgcgtg ggaccataca aaccatcgca acgcaacagc aacaacaatt tctaccagca 60
ctgagccaac tagctgtggt gaacctgtc gcctacttgc aacagcagtt gcttgcatcc 120
aaccacttg ctctggcaaa catagttgca taccaacaac aacaacaatt gcaacagttt 180
ctaccagcgc tcagtcaact agccatgggtg aacctgccg cctacctaca acagcaacaa 240
ctgatttcat ctagccctct cgctgtggtt aatgcaccta catacctgca acaacagttg 300
ctgcaacaga ttgtaccagc tctgactcag ctagctgtgg caaacctgc tgctacttg 360
caacagctgc ttccattcaa ccaactgact gtgtcgaact cttctgcgta 410

<210> 10074

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-B12

<400> 10074

cccacgcgtc cgcccacgcg tccgcccacg cgtccgacgg ccagaggaag ctaccaggg 60
cgatcgatcg agagagagag agagagagca tggctggcag gagtttcttg attcgggtccc 120

ccaaggagga ggagtccaac gccgccgtca gagaagctgt actgctggga gcaaagaacg 180
 ccgcaatagc tggtagctgt gttgcagttc ccacgttggt tggctgccgt gtccttcctt 240
 gggctaaggc gaatctcaac tacactgcac aagcactcat tatatctgca gcctgtattg 300
 ctggcttctt catcactgct gacaaaacca ttctacggaa cgcacgacaa atcaccatcg 360
 ggaagcttga caagtcaact tgatgcatag atgtagctga ag 402

<210> 10075
 <211> 442
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-035-Q1-K1-B2

<400> 10075
 cccacgcgtc cggttgggcc agccggagcg ttgccttccc aacattcaag gcagtatgcc 60
 ataaatcttg ctgagggtag cagcagtagt gtacgtgacg gtaatcggaa atgggaaagt 120
 cagggccttg atcttaactc aggccctgga agtatagatt tagaaggaaa ggatgaacgg 180
 atgcctttac cagtcagaca aaatttgatc ccaccctac atggccttgt ggaggatcaa 240
 ggaagaattt accaaatgcc agttgtagga acaaagagaa aggaacctga tggcagttgg 300
 gactcagaaa ggtctacata caagcagtta ccatggcaat gagggctctg aaagagatca 360
 ttttgcaccg actggctctg gaatgagcat atcacctgca tgtanagctt ggcccgtgtg 420
 ttcttcagtc actggactac ac 442

<210> 10076
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-B3

<400> 10076
 cccacgcgtc cgagttcgca aagcatgctc aagcttcctt aaagcttagc aaggtgtgca 60
 tgggaatttc tttctcaact ggaagccgac gagaattatt aacagctgac atgcacctta 120
 aaagtacctt gaaacagacg atggacttct catacactga ggagtacaaa gctcttgcta 180
 actgtcttga agatatgaag aacctgattg ccgatactgc ctaggttgat gcatgcaagt 240

tttggacgct ggatatgata atgtattggc cgtttctaata taagcattgc tattgttgtc 300
 ttgttgggaa tcaagatcac attatcggac tctgttaaca cacacagaga tgccaagaca 360
 agtgaacctg cgccagagac tgtaagcgaa tatgggtgtgc tgctaca 407

<210> 10077
 <211> 400
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-035-Q1-K1-B4
 <400> 10077

ggatctccta tctggcgacg agctcctgat aaaccaacat ctcaacgccg gcgtattgga 60
 ggggtgttctg tgggacgtag aggcaaagtt gtcacgcga ggtgctgttg atgtggacat 120
 aggtgccaat tcatacgtcg aggggtggtga ggacgaaagc gttgatgaca cagctgcgaa 180
 cgtggttgat attgttgaca catttcgtgt acaggagcaa cctccttttg acaagaaatc 240
 atttgcgtct tacatcaaaa aatacatgaa gaatctcact gctgtgttgc agccagagaa 300
 agcggatgag ttcataaagg gtgtcgaggg tgctaccaag tttcttctta gcaagctgca 360
 tgacctccaa atttttgatg gtgagtccat gaaggatgat 400

<210> 10078
 <211> 462
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-035-Q1-K1-B5
 <400> 10078

cttgctgatt cagatctggg ctatgaaaag tctgttgctt ttacaaagtc aattccgcga 60
 agactggttt ttgagaatac tcgaaggaag tccagtgccg ggagaaatgt gccagacaat 120
 catgcaagaa ctaaaacaca tctttagtaa aataaaatgt tgagcagttc tgttgaaaat 180
 aaatttatcg ttaatggagg atctgcaatg cagacagacc atggacaaga gtttctttct 240
 gatgttggtc atcaaggtag cttaagagta gatgaactag caaagttact agcttgagag 300
 gtgattgctc ttttatcaac cacatagacc agtatcaaca tcctttgaaa catatgcaag 360
 atttgcataa actctgaatt gggtaaaaca ggtctcaagt ctgttgctgc gtgggtgagtc 420

ctttttaacc ttgaaatact gaactataat cctgtgcgat gt

462

<210> 10079
<211> 425
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-035-Q1-K1-B7

<400> 10079

cccacgcgtc cgtgcagccc gacggcgacg ccctactgct cgcctcagtg ccagtcgttg 60
cggcagcagt gttgccagca gctcaggcag gtggagccgc agcaccggta ccaggcgatc 120
ttcggcttgg tcctccagtc catcctgcag cagcagccgc aaagcggcca ggtcgcgggg 180
ctgttggcgg cgcatagc gcagcaactg acggcgatgt gcggcctgca gcagccgact 240
ccatgcccct acgctgctgc cggcggtgtc cccactgaa gaaactatgt gctgtagtat 300
agccgctggc tagctagcta gttgagtcatt ttagcggcga tgattgagta ataattgtgc 360
acgcatcacc atgggtggca gtgtcagtg gagcaatgac ctgaatgaac aattgaaatg 420
aanaa 425

<210> 10080
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-B8

<400> 10080

ctataggatc caacaggcaa tcgcagctgg catcttacct ttatcacctc tgttgctgca 60
acaatcatca gccctattac agcagttacc tttggtgcat ttattggcac aaaacatcag 120
ggcacaacaa ctacaacaac ttgtgctagc aaaccttgct gcctactctc agcaacaaca 180
gtttcttcca ttcaaccaac tagctgcatt gaactctgct tcttatttgc aacaacaaca 240
actaccattc agccagctat ctgctgcta cccccagcaa tttcttccat tcaaccaact 300
gacagctttg aactctcctg cttatttaca gcagcaacaa ctactaccat tcagccagct 360
agctggtgtg agccctgcta ccttcttgac acaaccacaa ttgttgccgt tctaccagca 420

cgctgcgcct aacgctggca ccctcttaca act

453

<210> 10081
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-B9

<400> 10081

gaacgaacgg cgatcatttc tcccaatata taaagatgca aaattaagag tcacaagtaa 60
ctctgaaaga aaatacaaaa ttaaccaagg tactacaaag gtggctttga tgaggtctcg 120
gaatgacact tagttccttt tcagcgtttg ccaccgccgc cacccaactt ggggcctttg 180
gaacccttct gaacagcacc cttegtctgc gccttctggg acttggacac ctcagccttc 240
ttcgccttct tctcatcctt ggtctttctg atgcgctcct tgatctcacg aagagcagct 300
tctctagcag catctcggac ttcaggett ctcagctctct tcttctggat cacttccaag 360
gaagcaccca caatggacct cgagtatggc ttcttggtgg c 401

<210> 10082
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-C1

<400> 10082

cccacgcgtc cggagaccaa caagcaacat agaaagtgga atccagtagc aacaacagag 60
cagcaatggc gaccaagata ttttccctcc ttatgctcct tgctctttct gcatgtgttg 120
ctaacgcgac aattttccct caatgctcac aagctcctat agcttccctt cttcccccat 180
accttccatc aatgatagct tcagtatgtg aaaaccacgc tcttcagccc tataggctcc 240
aacaagcaat cgcagcaagc aacatacctt tatcaccctt gttgtttcaa caatcgccag 300
ccctatcttt ggtgcagtca ttggtacaaa ccatcagggc acagcagctg cagcaactcg 360
tgctacctgt gatcaaccaa gtagctctgg caaacctttc tccctactct cagcaacaac 420
aatttcttcc attcaaccaa ctgtctacac t 451

<210> 10083

<211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-035-Q1-K1-C10

 <400> 10083

 agacaaagaa atgggctgag cctcatctgg aaactgctaa cacacaatgg atgcctgggtg 60
 ctaaacaaaa atgggctacc ttgaagaaac atgcacaggc ctatgatcaa atggcctcag 120
 agaaatcatt ggatgcttat caaacatcaa gtgactctag aaggcctcat cttgttaatg 180
 cacatcaagt ctgttgatcc ctattctcag gaagccaata aatcatccaa gccatatgtt 240
 gatcaaatac ctacagctac taaaccacat gtcgagaaag tcacaactgc tctcaagcct 300
 tatactgaaa gatcacgaca tgtatatgga cagtttcttg agacagctac tacatatcat 360

 ccagcagctc acgcaactat ctcggattac cttcaccggc atgagtttac aa 412

<210> 10084
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-035-Q1-K1-A8

 <400> 10084

 aggccttacg gagaagattg gcggatggaa tgctaccata atttcaaagg atgaattgag 60
 cactcagcct tctattgtat gcgagatcga gccatctctt ctgcgctcat gtgaggagcg 120
 gttgaaggat gtccaaggga gggtcgaagt gctgtctgtc tccacgcacg tagaaagtgg 180
 cccatctgtg gaacaacaca acagtgtgga agtgccacaa gcggctcctg taaaggaacc 240
 tgatgctgtt gctcagataa gtgagaccat gcagaaacag agcatttcta ctgaaagcca 300
 gggcaatgca caaggcaagc aacagagaaa gtgcaaggag tgtgatgtac tcgtggagga 360
 caagctntac agagagcact gcaagagtgg gtggcacata cacaactaca cagccacan 420
 gaatgggctc 430

<210> 10085
 <211> 241
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-H3

<400> 10085

aaaaaaaaata aatacctaac tataaaataa attaaaaaca ataacaacta aaataaaagg 60
aaagcacaca tcaaacattc actcaccaaa aaaaaaaaac caaaaaccat aacaaaacca 120
actaaccaac aaccagatcg cctatttcaa ggacaccttt aacctcttcg acaatgaccg 180
ctacaatttc attacaacca aagatcaatt aacttttcatt ccatcacttt ttcaaaaccc 240
a 241

<210> 10086

<211> 431

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-034-Q1-K1-H4

<400> 10086

acgcgtgcga actactttca tctaaccgcg ttgcggtggg caatgcacct acgtgcctga 60
aacaacagtt gctggaacaa aatggaccaa ctctgactca actagctggg gcaaaccctg 120
ctgcctactt acaacagttg cttccattca accaactggc tgtgtcaaac tctgctgcgt 180
acctacaaca gcgacaacag ttacttaatc cattggcagt ggctaacca ttggtecgta 240
ccttntctga gcagcaacaa caattgctgc catacaacca gttctctttg atgaaccctg 300
ccttgacgca acccatcggt tgaggtgcc tcttttagat tacatatgag atgtactcga 360
caatggtgcc ctcataccga catgtgtttc ctagaaataa tcaatatatt gattgagatt 420
tatctcgatt t 431

<210> 10087

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-H5

<400> 10087

cggacgcgtg gggttcacggc gcatgattac aacgccaccg tggagttcta ctgggcggcc 60

ttcctggtgg agtccaactc ggatgacccg caggcgcaca gcgtcatgaa ccgtgtcatc 120
gcctggcgcg ccatcgccaa gcacgccaag aactggaagg gcgtggacta cctcgtcttc 180
aactcataca tctggtggct caacacattc gagatgaaag tcattcgccg tcatcagcat 240
cagcttgaaa aggaggagga gggggtgagg tggagcaagt acgcccttgt ggaccggccg 300
gtggcgtagc gggaggtgct caagacgtgg gccaggtggg tggaccgcca catcgacccc 360
aaccgaacaa gagtcttctt catgggcatg tcgccaacc acgtcacgcc gtgggctggtg 420
ggtaa 425

<210> 10088
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-H6

<400> 10088

ccacgcgtgc gaggcttcaa ccctatagga tccaacaggc aatcgagct ggcattctac 60
cttggtcagc cttgttcttc caacaatcat cagccctatt acagcagta cttttggtgc 120
atttattggc aaaaaacatc agggcacaac aactacaaca acttggtgta gcaaaccttg 180
ctgcctactc tcagcaacag cagtttcttc cattcaacca actagctgca ttgaactctg 240
ctgcttattt gcaacaacaa ctaccattca gccagctagc tgctgcctac cccaacaat 300
ttcttccatt caaccaactg gcattcattga actctctgctc ttatttacag cagcaacaac 360
tactaccatt cagccagcta gctggtgtga gccctgctgc cttcttgaca caacaacagt 420
tattgccgtt ctacctgcac gctgcgcta acgct 455

<210> 10089
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-H7

<400> 10089

gcactggaaa cagaacttaa aaacaaattg tctatacttg gtctgatgcc atctgcagct 60
ttggcagagg tactgaagca attgaaggac aaatcattaa agcgagcagg gctgactgaa 120

gaacaattgc aagagcagat tgagcagaga aatgtcgcaa ggaagaataa gcagtttgag 180
 atatctgatg gaatcaggaa aaaccttgct accaaaggca tcgccctgat ggacgaacct 240
 tctggtacag tatggagacc atgcgaacca gagcggctctg aagagtcatt attagctcac 300
 tgactcaaca agtcatggcg gtgtaaaatg agatctttgc ctgagggcag ttatcgcatc 360
 ttgaagacta acaaaaatcg ccatctcttg atgtggtatt ctacagggta 410

<210> 10090

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-H8

<400> 10090

gtgccgggat gatactgctg gggggtgata gtactggtca cactgactatt gcggcggggc 60
 atgtcctgcc ggcgtcgat ctgaactccc aagacgccgc cgccgtcaga cagtacatca 120
 acacgtccag caagccgact gcctccatcg tcttcaacgg cacggcgctg ggcaccgctc 180
 cagctccgt cgtcgcctac ttctcatcca gggggcctag cactgcgagc cctggcatct 240
 tgaagccaga cgtcattggg cccggcgctca acgtcgttgc ggcattggccg ttcaaggctc 300
 ggccaacaac aaacaccgtc ggccgtgacc gtgacgacga cgaccaacat ggagcagcag 360
 cagctacttt caactccgta tctggaacat ccatgtctgc acctcacctc agcggcatcg 420
 cagctgtcat caagagcgca ca 442

<210> 10091

<211> 447

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-035-Q1-K1-A1

<400> 10091

aataattaga accacggaac tggctgctgc tcaagaccgc ctaactgatt tggagaggca 60
 aaaggatgat attatgaggt cctattcccc tgccgcactg ctcaacaagc tccaaacatc 120
 aatggcaaag ttggatgagg agtccgagga gctgcaccag aagttcctgg agaaggacat 180
 cgaccttcca acctttgtgc agaagtacaa gaagctccgc acggcttacc acaagcaggc 240

gttgctccat ctgcgcggcc agacatcact ccgctgacat ccggccaggc gtcattggcaa 300
 ctttgttgta tttctgctcg cctgtttcttg ttctacacta tgcttgcccc tgttttacga 360
 gtgcagcctc ttgtagggat ttgccgaaca tcagcggata ttgcatgtat agttntatgt 420
 cttgcaaaaa cgtcttatgt actctgg 447

<210> 10092
 <211> 414
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-035-Q1-K1-A12
 <400> 10092

cgtagaacccg ccgcccagcg agcagcagga gacgcgcaa ggagagcccg caaggaggcg 60
 actatgaggg ccaagtggaa gaagaagcgc atgaggaggc tgaagaggaa gcgccgaaag 120
 atgaggcaga gatccaagta ggctgatggg gattgtggat ggtgggtgctg gcatagttgt 180
 gttacgtttc ttcgatgcgt gagttcatgg agagatgtca catcctagtt cgtcgtcacc 240
 gtttgccatg ggtccaatgg ctgcgtcttg aaacctgcac ttcagtaggc catctatcgt 300
 ggtttctagc tatatccaga gttttgtgct aagacaaatc agtcagtcgt tttgtgaacc 360
 tattatgatg gagctttatt tgctgcta atcgacctac ctgttaagta aaaa 414

<210> 10093
 <211> 354
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-035-Q1-K1-A2
 <400> 10093

gaccaccaat gcgttactgg attcagactt tcaggcacat gtaggcgatt tcgatctgat 60
 gaggggttatt cctgatggaa tggatcatga aaagattacc agcgaaagcc aacgaggcta 120
 tctggctcct gagtacatta tgttcgacaa accaactgca agttgtgatg tatacagctt 180
 tggaataata ctattggagc ttgctagcgg caaactgccg atagaaaagt catgctctgt 240
 taagacatat ggaattcgaa actcgttgct cccgctggca aggcacggca gatatgatga 300
 aattgcagac tcataactga gcgacaaggt ctctgaatct gaactgacat gaat 354

<210> 10094
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-A4

<400> 10094

ctgagaacga ggaggaatag gaggtttata ctttatagac gcaccgcctt atctctgtga 60
tatgaactct ggatgtgttg agacactcat actgtagcct tttaagggat gagttttgat 120
gtttaaattg gtcttctgaa tgtttttaag cgtgctggga cttctcatgt gatgcttaca 180
taatcgagtc caagaattga tggttctaaa aaaaaaaca aagataaaaa caagcaaaca 240
tagaacatta aaaatatgca aatcataact tccctgacat acggccaggt atctatgcaa 300
caatgaaaaa aaaaaggggg gcccttttta aggggtccaag tt 342

<210> 10095
<211> 448
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-035-Q1-K1-A6

<400> 10095

attcctccca tctcccaaga cctcctcaga cccgagaagc gcagctgcgg ccatggacgc 60
caccggcact ggagctggag ggaaggcgaa gaaggagcg gccggtcgca aggccggcgg 120
gccgaggaag aagtcggtga cgaggctcgt gaaggccggg ctccagttcc ccgtcggccg 180
catcgggcgc tacctcaaga agggccgcta cgcgacgcgc gtcggcagcg gtgccccgt 240
ctacctcgcg gccgtcctgg agtacctcgc cgctgaggtc ctggagctcg ccggcaacgc 300
tgccaaggac aacaagaaga cgcgcatcgt cccgcgccac gtgctgctgg cgatccgcaa 360
cgacgaggag ctcgggaagc tgctgaccgg cgtgaccatc gnccacggcg gcgtgttgcc 420
caacatcaac ccggtcctgc tgcccaag 448

<210> 10096
<211> 447
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-A7

<400> 10096

accacgcgt ccggtgggat gaacaacaac agtacgtgct ggacacgtcg gtgctgccgc 60
acgagccgga gagcatgcgt gagctgcggc tggtagccga caagcacgag tgggggttca 120
tgcagtcgtc cccggacgag gcgtcgctgc tgcggatgct gatcaagctg agcggcgcg 180
ggcggacgct ggaggtgggc gtgttcacgg gctactcgct gctggcgacg gctctggcg 240
tgcccgccga cggcaaggct atcgattcg acgtgagccg cgagtactac gacatcggcc 300
gccccttcat cgagcgcgcc ggggtggcgg gcaagggtga cttccgggag ggcccgcg 360
tgagacgct ggacgagctc ctgcccgaac cggccaacca cggcgcttc gatttcgct 420
tcgtcgacgc cgacaagcct aactacg 447

<210> 10097

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-F7

<400> 10097

gggatccaga aaattgatgc caggatacct gctgggttct tagaaggat gacaagagtt 60
attccaggct tggctggagc taatattatg gaaaggcttc ggaatgctcc tgttgataca 120
aaccatcagg gcacagcagc tgcagcaact cgtgctacct gtgatcaacc aagtagctct 180
ggcaaacctt tctccctact ctgagcaaca acaatttctt ccattcaacc aactgtctac 240
actgaacctt gctgcttatt tgcagcaaca actattacca ttcagccagc tagctactgc 300
ctactctcag caacaacaac ttcttccatt taaccaattg gccgcactga acccgcgtgc 360
ttatttgag cagcaaatac tactaccatt tagccagcta gctgcagcaa accgtgcctt 420
cttcttgaca cagcaacag 439

<210> 10098

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-F8

<400> 10098

aagatgaagg gtgattacta cagatacctt gctgagttca agactggagc tgagagaaaag 60
gacgccgctg agaacacgat ggtggcatac aaggctgccc aggacattgc tctggctgag 120
cttgctccaa ctcaccctat taggcttgga ctggcactta acttctcagt gttctactat 180
gagattctga actcacctga tcgcgcctgc agtcttgcaa agcaggcttt tgacgaggcc 240
atctcggaac tggacaccct gagcgaggag tcctacaagg acagcacttt gatcatgcag 300
ctccttcgtg ataacttgac cctatggacc tctgacatct cggaggaccc tgctgaagag 360
attagggagg cgccaagcg ggactcgagt gaggggcagt aaagccggct ttatgtgect 420
agaaactagt agctagt 437

<210> 10099

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-F9

<400> 10099

agagcaatgg aaggagaagt ttgaagataa ctcaatatgg tatgagcaca ggttgatgga 60
tggcatggtg gcctatgctg tgaaaagtga tgggtgggtat gtttgggctt gcaaaaacta 120
tgacggagat gtacagagcg attttcttgc ccaaggtttt ggttctctgg gtttgatgac 180
ttctgtgctg ttgtcttctg acgggaaaac attacaggct gaggtctgctc atgggactgt 240
cactagacat ttcaggctac atcagaaagg acaggagaca agtaccaaca gtattgcctc 300
catattcgct tggacccgtg gacttgaaca cagggcaaag ctggataaaa atgatagtct 360
gctggatttc acacacaaaac ttgaatctgc atgtgttgaa acggtggaat ctgg 414

<210> 10100

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-G1

<400> 10100

atccagaaaa ttgatgccat tatttctgct gggttcttag aatggatgac gggaggtatt 60
ccaggcttgg ctggagctaa tattatggaa aggcttcgga atgctcctgt tgatacaaac 120
catcagggca cagcagctgc agcaactcgt gctacctgtg atcaaccaag tagctctggc 180
aaacctttct ccctactctc agcaacaaca atttcttcca ttcaaccaac tgtctacact 240
gaaccctgct gcttatttgc agcaacaact attaccattc atccagctag ctactgccta 300
ctttcagcaa caacaacttc ttccatttaa ccaattggcc tcaactgaacc ccgctgctta 360
tttgcagcaa caaatactac taccatttag ccagctagct gcagcaaacc gtgcttcctt 420
cttgacacaa caac 434

<210> 10101

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-G12

<400> 10101

cccacgcgtc cgcgcttccg agcagacgtc ctccttggat aaggggatag gcgcgaggaa 60
gagcggccta tccgcatccg cataaatccc agtcaaattg aacgagagcg ccaactcccct 120
ctgctaatacc cagtcaaatac gaagcaagca tggccatggc ggccgtgggc gtgggcggcg 180
cagtggcggtt cctcctcccg cagcgccgcc agggcgccgt cccctggagc ggcgggcggc 240
ggcgggcgcc cgtggcggtg cgcgcgtcgt acgaggccgg ggtgggcgtg atggcgacca 300
aggtggggat gatgacctac ttcgatccgg agacggtgaa gccggtgccg gtgaccgtgg 360
tcgggttccg ggagggcggc aacgtggtga 390

<210> 10102

<211> 294

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-G2

<400> 10102

attccatcag cttccatcga ccaaagtatg tatgaccctc actcaatttg gatatggaag 60
ctctttaatt agatttacta tgctaccaac atattcatgt cttaacactc aaccatgctc 120

attcttccat tgcggggcat gtaaagtgg tattcatttg aaaaactatc aacatactca 180
 tgtgcatccc actgtatcaa acattcaaac attatgattg atatgattcc atgatacacg 240
 tgaaattagt gcttttaaac ctgtcatagg agacatactc ctttcacaat ttag 294

<210> 10103
 <211> 439
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-034-Q1-K1-G3
 <400> 10103

cccacgcgtc cgcttggttaa gctcattggg tattgctcag atgggtgacaa cgggcttggt 60
 gtgtatgaat ttatgcccaa gggaagtttg gagaaccatc tgtttagaag aggtgctgat 120

cctttgtcat gggcaataag gctcaaagtt gccattggag ctgctagggg cttgtcattt 180
 ttacatgatg ccgaaaacca agtcatatat cgtgatttca aggcatacaa cattcttctc 240
 gattcggaat tcaacgcaaa actttcagat tttggcttgg caaaagccgg tccaactggg 300
 gataaaaccc atgtatccac acaagtcatt ggtactcatg gatatgcagc tccagagtac 360
 attgcaacag ataacggtca gttggtggag tctgaaagag ttgcaggtga agaccctgag 420
 cagcagtcgg ttggttaag 439

<210> 10104
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-034-Q1-K1-G4
 <400> 10104

gccatcatct gccaggagaa tggctctggg ccaattgttg agcctgagat ccttgttgat 60
 gggcctcatg acattgatcg ctgcgcttac gtcaactgaga ccgtccttgc tggctgctac 120
 aaggcgctca acgagcacca tgtcctcctg gagggtagcc ttctgaagcc caacatgggtg 180
 actccaggct tcgacttcca gaaggtgact cctgaagtga ttgctgagta caccgttcgt 240
 acccttcaaa ggaccgttcc tgctgctgtg cctgctgttg tcttctctc tgggtggacag 300
 agcgaggaag aagccacccg caacctcaat ggcataga aactcagcac caaagagccc 360

tggtccctgt cttctccttt cgccgtgcc ttcaggcgag caccctcaag cctgngctgg 420
caaggtgg 428

<210> 10105
<211> 428
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-034-Q1-K1-G5

<400> 10105

gcggcagtgc gtagagagga tcgtcgaaca gaacagcatg aagatgggtca tcgtttctggt 60
cgtgtgcctg gctctgtcag ctgccagcgc ctctgcaatg cagatgccct gcccttgcgc 120

ggggctgcag ggcttgtacg gcgctggcgc cggcctgacg acgatgatgg gcgccggcgg 180
gctgtacccc tacgcggagt acctgaggca gccgcagtgc agcccgttgg cggcggcgcc 240
ctactacgcc ggggtgtggc agacgagcgc catgtaccag ccgctccggc aacagtgtg 300
ccagcagcag atgaggatga tggacgtgca gtccgtcgcg cagcagctgc agatgatgat 360
gcagcttgag cgtgccgctg ccgncagcag cagcctgtac gagccagctc tgatgcagca 420
gcaacagc 428

<210> 10106
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-G6

<400> 10106

cggaagcgtg gggagctgaa cagtctgcga agcaacagaa gattaagata tgggagaact 60
atgtcgaggg tgaaaatgct tccaatggat ccacacctga atctaaacaa aagcaaattc 120
tcaagtttgt tgtcacggaa gttcttgggt gtgggaagtt ttatgttcag acaatgggtg 180
accagagggg ggcttcaatt caacagcagc ttgcatcttt gaaacttaaa gatgcgccgg 240
tcattggtgc ttttaatcct gtgaaggag agatagtctt cgcacaattt agcgttgaca 300
actcctggaa cagagctatg attgttaatg gacctcgttc tgttgaatct ccggacgaca 360

agtttgaagt attctatatt gactatggca accaagaggt ggttacctac agtcgtttac 420
gacctgt 427

<210> 10107
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-G8

<400> 10107

acgacgcgtt caatgtgcct atgaattggc gaatgaagca acatgagaag gttcttgggg 60
aacgtgacct aaaccagaa tcaactgttg ttgctatctt gcactatcct atgcattatg 120
ctgggcccaac tgatgctcaa tgtcatgcta aggctcgtat taatgctgac gcaaatttct 180

atatcgctgg aagggatcct gatggtatga gccacccgac acagaatagg gacctctatg 240
atgctgatca ctgaaagatg gttttgagca tggctactgt cctcgagagg ctcaacatcc 300
ttgctttcaa ggacgctgca tatgacacaa agcataagaa aatggctttc tttgatccat 360
caaggataga tgattctctc tccatcactg gcac 394

<210> 10108
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-G9

<400> 10108

gaaagacaga agccaagact gaggcgttat caccacaggc ataggtggcg gagatggagt 60
tgtgcccgtat tctgtggcct ggcaacaatg ttaaataaaa ggaatgcttt atgttgtgct 120
ttcaagttga taaattgtgg caacaggaga ttttgcttta cgtaggcaat atattgagaa 180
gctactctta ctcatccacc atgaataatc tttgctgcag tggagcttca tgtcggcgaa 240
caatgcaaac gttgtacttc tttcatgcga ttgagtagtt gatgttttac ttctgttgcc 300
accaacagtt gaacgctgta cttgcagatt gataagatct ccgtgctttc taaaaaaaaa 360
aaagactagt gggaaaaa 377

<210> 10109

<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-H10

<400> 10109

agcaaatact gatccttggtt attctgcatt tcacgatgaa gagtggggag ttcttggtca 60
cggtgacagg aagttatttg agctgctagt actgtcaggg gcattagctg aactgacatg 120
gccagcaatt ctgaataaga gagacatatt cagggaagtt ttcatggatt ttgacccagt 180
atcagtctca aaattaagtg agaagaagat tatcgcacct ggaagcccta gcagttcctt 240
gttatccgaa cagaaactgc gcggtgttat tgaaaacgca cgccaaatac tcaagatcat 300
agaggaattt ggatcgtttg ataaatactg ttggagcttc gtgaatcaca aacctatatt 360
gagccggttc aggtactccc gtcaagtgcc tgtcaa 396

<210> 10110
<211> 274
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-F6

<400> 10110

cagctagctg gtgtgagccc tgctaccttc ttgatacaac cacagttggt gccggtgtac 60
cagcacgctg cgcctaacgc tggcaccctc ttacaactgc aacaattgct gccattcaac 120
caacttgctt tgacaaaacc agcagcgctc taccaacaac ccatcattgg tgggtgccctc 180
ttttagattt cttatgagtt atagttcaat aataaagttt tttgtctgat gtttgtggct 240
tcccagaaat aagaaagtac atttctagat tctt 274

<210> 10111
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-C11

<400> 10111

gtttagtttc gaaaaaatct gaaaaaaaaat tctggctcgag gggaggaggc gatgtcggcg 60

cgagtggcgg tgggtgcctaa tggggggcccg ggcgctgtcc ccgcggtggt gtcgccggga 120
gctgtcggcg tggtcagcc tctcccgacc acgtcgctct acgtgggcga cctggagggg 180
gccgtctcgg actcgcagct gtacgaactc ttcagccagg cggggcaggt ggtgtcgggtg 240
cgcgctcgtca gggatgtcac ctgcgcgcgc tcgctcggat acgcctacgt caactacagc 300
aatcccttgg atgtcgcgag agcattggaa gtgctgaact ttgctgctct taacaacaag 360
cctatccggg tgatgtattc aaaccgtgat ccaagcagcc gcaggagtgg atctgctaac 420
attt 424

<210> 10112
<211> 396
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-011-Q1-K1-C12

<400> 10112

cccacgcgtc cgccccacgcg tccgcggacg cgtggggttga gcgggtgaga catttgagga 60
gagtccgagg tgtagcaaaa gatctgggggt gtagctgggt tgagctctac aaccgagttc 120
atgtgtttgt tgtaggggaa caacaacatc ctgaagcgga aaatataaat gtagagttga 180
taaggctagc gaagcatatg aaggacgaag agtgtttctt gtttgatgac gaaaaggatg 240
aactaggaga ttctcatgaa ggtgaacaaa tggaattgat atcaacaaca tattactgag 300
ttcgcaagag attgatccca tgatgtcaga caaacaccct gttaaagcaa tgtgtgacat 360
ccgtgatttg gggttattnt atgttgattt ttcttt 396

<210> 10113
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-C5

<400> 10113

aaaagtgatg ctgtggatcc tccaaagaaa agaggacgtc caaaaggggg gggatccgtc 60
aatgggacac ccagtacctc agctactccg agcacaaagg ggaaaactgc cggcaagggtt 120
accaaagaaa cacctaaaac tggccccaac cttaaaaaag aacttgagaa gaactccaag 180

gacaaggcta atgtttcaac tgggacaaaa gatgataaga gtgtgagcaa acctaaggag 240
gctattatca aaggcaagga ttcaaaagac gaaggcaagt ccactgaagg aaaagctaag 300
cctggtcggg aaccaaaaaa tgctggtact cctgcgggtg attctgacaa agagaagcag 360
gaggtagaag tcaaggcagc tgaaatagag gaggcacag gaaatgcttc cacaggggaag 420
aagcgt 426

<210> 10114
<211> 440
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-011-Q1-K1-C8

<400> 10114
ctggaggagg gcaacttgat ttgctcatct tggattgcct atacaggacg ggttctgaca 60
atgtgcactt gtgttgggac cagacactag atgctgttag gaggatttgc cccaaaagag 120
cactgcttat tgggatgacc cacgagatgg atcatcaciaa ggacaaccaa acattggaag 180
aatggtccag gagggagggg attgacgtgc agttagctcg tgatggcttg cgtgtctaca 240
ttgatctgta gccgtgaaag gaaaatatgc catactcagc gaaccgcgcc aggctttctg 300
gctgatgtaa catccattcc cacttgtgaa gaaagtgcaa actgactaaa aaggcgagcc 360
tatttggtgc atcattttac gtttcgctag tttatacgtg aatctctgaa taaaaaagag 420
aaaaagaaaa gaaaagagag 440

<210> 10115
<211> 368
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-011-Q1-K1-C9

<400> 10115
cgcacgcgtc cgcgccagcc agccatcgct aactggtga gctctgcact ctgcttggt 60
ccgagcttca gtgccttcgt tgtttggtcc acgcagtcca cacacacaca ccagtacgtc 120
cagctgcact gcaccaatgg ccgccgtcga ggtccaggtc ccgactgccg ctcccgtcga 180
ggaggttgcc cagctggccg ccgcctccgc cgtcgagatc ccgaacgagg agaccgctgc 240

tccggcgggtg gagaccgagg tcgtcgtcgc taaggagccg gtgccggccg aggccgagac 300
tgagtccaag gaggtcgagg tcgaggctga ggccgaggcc gaggccgtag ctgaggctga 360
gccgaccg 368

<210> 10116
<211> 400
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-011-Q1-K1-D11
<400> 10116

gcgtgctcca ccggtctctg cttcttggcg tcgattcctc ctctctcagc ctcttgttct 60
tcgggctcct cctgcttctt catgatcaag cgtgtgtcct ctgctccgtc cttgtccaga 120
tggaagatcc aatacaagca attgggacat acaatatatc ggagaagcca cgttctggcc 180
tttgctagtg cagatgcacc acaaggcaaa agaagctcag gtgagaatgt tgtgatggtt 240
gatccactgg aagctaagcg cctagctgct aaacaaatgc aagaaattag ggccaaagaa 300
aagctgaaga ggcgccgtca agcagaagcg atcaacgggg cattggcagt gataggactc 360
acggctggat tgctagtgga ggctcagaca ggaaaggaca 400

<210> 10117
<211> 427
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-011-Q1-K1-D12
<400> 10117

ctgacgcgtg cgctgtttgt gaggaatgcg acatgctgaa gatagagttt ttgcagtgat 60
ggggcctaca cttgacgcac agggttgttc ttgtatagac aaaaggggag aaatgacacc 120
tccaatctcg agaattgtcg aacaaggaca gatctgacac ctcaattgcg agaaataaac 180
atcacagccg acagttgcat gatccctgaa cgaataaatt cagaactaga aaacagatgt 240
cactaaacaa catgtggtga atgttggaac ttgaactgct ctacttaagt gggcatctgc 300
tgctgcatgc tttgcatgga tttaatgatt cgtttatttt cttacttgta ctgaagtgct 360
ctgattcggg acgatcactt gttgtgaagt gcttgaatgc tatatggtat catgagaatt 420

aataaac

427

<210> 10118
<211> 430
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-011-Q1-K1-D2

<400> 10118

gacactcaat ccttgaatgc taaattttat acttaactcc atgctcacca gatccccggac 60
tacaatggca tggctaacaa ctcgaatgat cctaacaacc ttaccacttc ctataaagac 120
attaacaagg atctaagcgt acattttaag aacacactgt agactgccta tgcacttggc 180

cagttggcctt tgaccaatgc tatgctatac cttgaggatg ttattgctca catgcaggca 240
tttccattgc acagatacta ctgttggtgtt cgtcgcacct ggacactaa gaatgatcac 300
tccaataggc anggtccaat acatgattaa atgagaacaa tgtcatcctg catttgatga 360
acaatgctga tactcacgat gatgtgcata gctaagatct tgacatgctc tatattttac 420
acgttcatgt 430

<210> 10119
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-D6

<400> 10119

gcaacataga aagtggaatc cagtagcaac aatagagcaa caatggctgc caagatagtt 60
tccctcctta tgctccttgc tctttctgca tgtgttgcta acgcgacaat tttccctcaa 120
tgctcacaag ctctatagc ttcccttctt ccccatacc ttccatcaat gatagcttca 180
gtatgtgaaa acccagctct tcaaccctat aggtccaac aagcaatcgc agcaagcaac 240
atacctttat cacccttggt tcaacaatcg ccagccctat ctttggtgca gtcattggta 300
caaaccatca gggcacagca gctgcagcaa ctcgtgctac ctgtgatcaa ccaagtagct 360
ctggcaaacc tttctccta ctctcagcaa caacaatttc ttccattcaa ccaactgtct 420

acattgaacc gtgctgctta ttt

443

<210> 10120
<211> 421
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-011-Q1-K1-D7

<400> 10120

aacgccttca agcccatctc ggtagccgga gaacgagcag cagcggaggc gatgtcggcc 60
ccgtatcccg gccacacgcc ggcgcaaggc gaggaatctg cctccccctc ctcgtggcct 120
cccagaaagc tccagagttt cacaccaggg ctgtggtcac aatacaaagc ttatgaggat 180
gcagttgtgg agaacattaa aggaactatt gcggatgctc tggttcttgt gagagagcat 240
caggcggagg caattggatg tgccactggt gcaggattca ttctgttcag aggccctcga 300
agatttttat accgcaatac ctttgccggt ttgaagactg agaaagattt actgaatgat 360
gccgagcana gtatgatgga gtaccanaca tctattcaga actttgaaga aagaattcaa 420
a 421

<210> 10121
<211> 221
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-D8

<400> 10121

cggacgcgtg ggcggactcg tgggcaacta caacaattgt tgcccttggt ccaactggct 60
ttgacagacc cagcggcctc ctaccaacaa cacatcattg gtggtgccct cttttagatt 120
gcttattagt tgtaattcaa taataaagtt ttctggaaat gtaacttctt atttctgggt 180
ggccacatac atcatccaaa aataagaagt tacattttcca g 221

<210> 10122
<211> 238
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-011-Q1-K1-A7

<400> 10122

taatataaca ncctatactt acaccttcca tantacaatc tctaaattcc ccactttcaa 60
tatcttataa tttaaattct attcctacat caatttttaa cttcttttac cattaaaatt 120
ctttataaac cattcattat tttctcatca aactctcaac tcaaaaacat tctcttcttt 180
ccattaatct ttaaattctca aatccctggt cccaactatt ttcccatatc atttcttt 238

<210> 10123

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-A8

<400> 10123

gctaaatata gcaatggcta ccaatgggtt aacaacattg ctcatgagg gacttgagca 60
tcgagaagct attgcccgtc tgactctgct gaaactcata aagggtgtct atgagcatca 120
tctctgacca aaacagctca tagtagagaa tgacctccct cagaagctac agaacctcat 180
tgaagagcgc agggatggac aacggggcgg ccaacaagtg ttggtcaaac aaatggccac 240
ctcattgctg aaagctctgc acatcaatac agtattgtga tattggtgga tcatatgttt 300
tctctcaag ttgtatatgt ttgccctaga ggagaagggtg tcttttctt ttgctctgct 360
gtgggtggtt ctcatgagca ccagactcat ctgttggtacc tgatccctct ttttctggga 420
gaaagggttt ttaggtgcag gat 443

<210> 10124

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-B11

<400> 10124

tccactcaa cccactcgtc cgcagaaaaa aacaaaaacc aaaaaaatt tacataaaaa 60
aaaaaaaaa aaaaaaaaaa aaaaagtaaa attttaaact aacaaaaaac cacaccaaca 120
acaacattaa catcaaacac aaaaaaatcc tccaacaccc tcaaatcatc caaccacctt 180

aaaacacccat aattttaacta ccatcttcct tatctacttc taaaactaca tcatccttat 240
cacccatttt cattaccacc actttaatat atctatccaa ccattcttca aacaatatta 300
ctcaactaac atactaattc tatttc 326

<210> 10125
<211> 450
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-011-Q1-K1-B3
<400> 10125

ccgacgcgtc cgcccacgcg tccgcattca gaaacacacc tagcgaagcg cactagcggc 60
gacctaacaa caatggcttc caagacatta tcctctcttg cgcttcttgc cttttttgtg 120

agtgaacaa atgcgttcat tattccacaa tgctcacttg ctccgagtgc cattattcca 180
cagttcctcc ctccagttac ttcaatgggc ttggaacacc cagctgtgca agcctatagg 240
ctacaacaag cgcttgccgc gagcgtctta gaacaaccaa ttgccaatt acaacaacaa 300
tccttggcac atctaaccat acaaaccatc gcaacgcagc agcaacaagc actgagccac 360
ctagccgttg tgaacctat cgcttacttg caacaacagc tgcttgcac caaccactt 420
gctttggcaa acgtagctgc ataccaacaa 450

<210> 10126
<211> 347
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-011-Q1-K1-B4
<400> 10126

ccgacgcgtc cggttaattcc ttgttatctg ccaattatgt atggactatg gacatgtggt 60
gcgctgggca acttactact acaaataagt aatcgatatg ttcccttcca aaaaaaaaaa 120
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagaaa 180
aaaaaaaaa aaaaacaaaa cataaaaaaa aaaaacataa aacgtcatac attttcaata 240
gagtaaccta aattaaataa actggccact gttaaacaac ttctggactc aaaaaaactt 300
gcctttaccc acctaaatct ccttgcagca cattcaattt tccccag 347

<210> 10127
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-B5

<400> 10127

aacgaaaccc agctgcacca gcaacttctg ccagcagacc caacgacgga agcttttgtt 60
ttcttttctt tcatcgccgc cgctcggggt tcaagggtca gcgcgtcccc gaatgacggg 120
cacgtacgag gccttcgacc gtcctgctcc tcccaactcc gccggctacc ggaccgacaa 180
agtcggcgga aagcggctga cggcgacagaa gaggaaagag atcaaggagg cgttcgacct 240
cttcgacatc gacggctccg gcaccatcga tgcaaggag ctgaacgtcg cgatgagagc 300
ccttgatttc gagatgacac ctgagcaaat cgggcagatg atcgcgagg tggacaagga 360
cggcagctgc accatcgact tcgacgagtt cgtgcacatg atgacggaca agatgggcga 420
gcgggacgcc cgtgacgagc t 441

<210> 10128
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-B6

<400> 10128

gaagcaaggg aatcacatcg ccatggcagc caagatgttt gcattgtggg cgctcctggc 60
tctttgtgca accgccacta gtgctaccca tateccaggg cacttgtcac cactactgat 120
gccattgggt accatgaacc catggatgca gtactgcatg aagcaacagg gggttgcaa 180
cttgctagcg tggccgacct tgatgctgca gcaactgttg gcctcaccgc ttcagccgtg 240
ccagatgcca atgatgatgc caggtatgat gccaccgatg acaatgatgc cgatgccgaa 300
tatgatgcca tcgatgatgg tgccgactat gatgtcacca ataacgatag ctagtatgat 360
gccaccgatg atgatgcaa acatggtttc accaatgatg atgccgagta tgatgccttc 420
gacgatga 428

<210> 10129

<211> 422
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-011-Q1-K1-B7

<400> 10129

cccacgcgtc cgcggacgcg tgggcgtacg cgtgggctct tttccaggtc canaccggaa 60
gaatctccaa ccgggcgggtg ggcgggtggcg gcagccggca ggatctgtgc cgcgatggcg 120
acgtcgaaca cggcgcggat ggaggacggc ggcgccgacc tgcggagcac catcaagaag 180
tggaatatca tctaccctgt ctacctcaac tccaagaaga cggtcgccga gggccgcccgc 240
atcgccgctg ccaaggcctg cccggacccc acctgcatcg agatcgctga ctgctgttcg 300
cacctcaaga tccccacgc catcgagttg gataaggcgt accctcggga tttcttccaa 360
gtggggaggg tcagggtgca gcttaagaaa gatgacggct ccccgctcaa tctgtctatt 420
aa 422

<210> 10130
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-B8

<400> 10130

ggcctgttca cctttacggc tgcatactta ccatgggtcc tattgggctt ctctatcgtg 60
gtgggaagca gcacatgggt tgatctcttg ggtatgattg ctggacatgt gtactacttt 120
ctggaagatg tatacccacg gatgactggc cgccgtccgc tgaagacacc gtccttcac 180
aaggcgctat ttgctgatga caatgttggtg gtggcacagc cacccaatgc tgggattgggt 240
gctgggtgcaa ggtttgggtg tatgggtcta gatccccagg ctcaatgata tgaattactt 300
tcagtgcact gaggctgtga ctgatctgag atgcggcagt ctgttctct gcgcaagttg 360
cggaactgta caagtcattg ttcttgatt tatacaggct agatgagaat tcttgatgc 420

<210> 10131
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-C1

<400> 10131

aggacgccta catcccgtc accacctacc tccgcaccta caagatcggc gactactgct 60
acattaggga gaacggcacc gtccacaagg cgatgccgca caagttctac cacggccgca 120
ccggtcgcgt ctggaacgtc accaagcgcg ccatctgcgt ctagataaac aagcacgtga 180
atggtcgcat catcaggaag cgtatccatg tccgcgtgga gcatgtgcag ccgtcccgtc 240
gcacacaaga gttccgcctg aggaaggtga agaatgacca gctgaaggcg gatgcaaagg 300
agcgcgcca ggatcatcagc accaagaggg agccgttggg cccaagcct ggcttcatgg 360
ttgaggggac taccatcgag accgtcactc ccattccgta cgatgtggtc aatgatctta 420
aaggctgata ctaagttggt gtttgggtct 449

<210> 10132

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-C10

<400> 10132

cggacgcgtg ggcggacgcg tgggtagcaa catagaaagc acaatagtgt accaacgggtg 60
gcgcccaaaa tatTTTtGctt ccttatgctc cttgggtcttt ctgcaagtgc tgctaccgca 120
accattttcc cacaatgctc acaagctcct atagcttctt ttcttccccc atacctctca 180
ccagcgggtgt cttcagtatg tgaaaaccca attcttcaac cctacaggat ccaacaggca 240
atcgcagcag gcatcttacc tttatcaccc ttgttctctc aacaaccgtc agccctatta 300
cagcagttac ctttgggtgca tttgttggca caaaacatca aggcacaaca actacaacaa 360
cttgtgctag gaaaccttgc tgctactct cagcaacagc agtttct 407

<210> 10133

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-A6

<400> 10133

attgatcaga cgctgccat ggcggatcag ttcgtggatt cggcgaagaa tgtgatcggt 60
gaggaggtga acaagggcct gaaccagga atggtggttc tgcttggttg tgcaagcttc 120
ctgctgctct tctttgtggg gaactatgcg atgtatgtgt atgcgcagaa gacgctcccg 180
ccaaagaaga agaagccggt gtcgaagaag aagctgaaga gggaaaagct gaagcagggg 240
gtctctgcgc cgggagagta aacggccatg ctgccgatcc tcccgccag agctcctatt 300
cacatgatta ttaaagaaaa aaatttatat atatatacca gctggagccg tagtggttga 360
gtaactttgt tctgtagatg ctctgtcttt aatggtacat ctgtattgga gactttaatg 420
gcctgagccg agctagtatg ctt 443

<210> 10134
<211> 436
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-010-Q1-K1-H12
<400> 10134

ctgtagcgtg ggtactacaa acacaccgag cgaagcacat tatccacaac ctaacaacat 60
tggctaccaa gatattatga gtacttgccg ttcttgccgt gtttgccgagc gcaacaaatg 120
cgttcattat tgcacaatgc tcaattgcta caagttcaat tattacacag ttcttccac 180
cagttactcc aatgggcttc gaacaccgag ctgtgcaagc ctataggcta caacaagcaa 240
ttgcggcaag cgttttacaa caaccaattt cccagttgca acaacaatcc ttggcacatt 300
taacattaca aaccatcgta acgcaccagc aacaacaatt cttaccagca ttgagccacc 360
tagccatggt gaaccctgcc gcctacttgc aacagcaatt gcttgcatca aaccatttg 420
ctctggcaaa cgtatt 436

<210> 10135
<211> 286
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-010-Q1-K1-H2
<400> 10135

cccacgcgtc cggagccaag aagaaaggag ggtgctctga cggcggcaga acggcaatgt 60

ccgacaggag gcgcggcacc tgcgccagca ccggcactcg caaggatgag gtgacgaccc 120
gacagtacac catcaacctt cacaagcgcc tcaacggatg cacgtttaac aagaaagcgc 180
cgaatgccat caatgagatc acgatgatcg cccaacaac aatggatacc aacgatgtcc 240
ggatcgatgt gaagctcaac atgcacgtct ggagcacacg aatccg 286

<210> 10136
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-H4

<400> 10136

cacagcagca ggcgccccct gtcttcgtcc ttccgaaatc ccaatcctcc ctccgagtec 60
cccatcccaa aactcggagc tccgaagctg gcaactggcat cgcggcaatg ccgaggccgc 120
ccacaatggt gatccaggac gactacatcg acatggacct gaccccgga gccacaccgg 180
agccctcgcc agcctcgccc cgcttcgagt tccagagcgc cggcgccggc gccgccggcg 240
acaggcatag ggaggcggcg ttccggtccc ccgcggacga gctgttctac aagggaacc 300
tgctgccgct ccacctgccg ccgcggctgc agctcgtgca gaggctctc caggaccagg 360
agcagccgcc gccgctgca ggggcgaagc gggatgcgga gtcggatgcc acggcggcgg 420
cggcggcaga gcg 433

<210> 10137
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-H5

<400> 10137

cggacgcgtg ggcgacgcg tgggcggacg cgtgggcgcg gcgaagaagc cggcggagga 60
ggagcccgcg gccgagaaga cgaccgccg gaagaagccc aaggcggaga agcgggtccc 120
cgcgggcaag tccgccgga aggagggcgg cgagggcaag cgtggcaaga agaagggcaa 180
gaagagcgtg gagacgtaca agatctacat cttcaaggtg ctgaagcagg tgcaccgga 240
catcggcatc tctccaagg ccatgtccat catgaactcc ttcacaaacg acatcttcga 300

gaagctggcc ggcgaggccg ccaagctcgc gcgctacaac aagaagccca ccatcacctc 360
 ccgcgagatc cagacctccg tgcgcctcgt gctccccggc gagctcgcca agcacgccgt 420
 ctctgagggc accaa 435

<210> 10138
 <211> 435
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-010-Q1-K1-H7
 <400> 10138

ggtctacgag ttctacaaag cacggtggag cgggtcacgg ccccgcgcac cgtctccgcg 60
 ttctcgaga agggcgctct ctccgtcccc gagttcattc tcgccggcga caacctcgtc 120
 gccaaagtgcc ccacctgggtc ctgggaagcg ggcgatccaa gcaagaggaa gccgtatctc 180
 cccgccaaata agcagttcct cgtcacccgt aatgtgcctt gttaagacg tgccatctcg 240
 gttgaggaag agtatgatgc agcaggagca gaggtgggtc tcgatgagga tggcgaaggc 300
 tggcttgcaa cacatggagt gcaagcatca aagacagaag aggaggaaga cattccctct 360
 atggacacct tggacatagg gagatctgat ggaataaagt ctatcccctc ttactttagc 420
 ggtggcaagg atgaa 435

<210> 10139
 <211> 241
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-010-Q1-K1-H9
 <400> 10139

caactatata tatacacttg cacacagcgg agtgggctac tcgagatgcg cttcgccagg 60
 cgctgacgcc ttaggagata agtttaccta cccatagcac gtcaccacga atgggcctga 120
 ggacattgct ggagggcaat tcgctgggtg caaatgcaca accgatattg aacgaaaacc 180
 gtttccttgg toccaaggaga tggagcatgt atgaagtatc aggaaacggt caaccaagt 240
 c 241

<210> 10140
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-A10

<400> 10140

cgttcagcat tcagaacaca ccaagtcgaa gcgcactatc aacgacctaa caacgggggc 60
tgtcaagata ttagccatcc ttgcgcttct tgcccttttt gtgagcgcaa caaatgcgtt 120
cattattcca caatgctcac ttgctcctag tgccattatt ccacagttcc tcccaccagt 180
tacttcaatg ggcttcgaac acctagctgt gcaagccaac atgcaacaac aagcgcttgc 240
ggccagcgctc ttacaacaac caattgcccc attgcaacaa caatccttgc cacatctaac 300
aatacaagcc atcacaacgc aacagcaaca acagttccta ccagcactga gccacctagc 360
catggtgaac cctgccgcct acttgcaaaa gcagctgatt gcattca 407

<210> 10141
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-A11

<400> 10141

agccaaaata ttatgcctcc ttatgctcct tggcttttct gcaagtgtctg ctacagcgac 60
caggttcccc caatgctcac aagctcctat agcttccctt cttcccccg acctctcacc 120
agtgttgtct tcagtatgtg aaaacccaat tcttcaacct tacaggatcc aacatgcaat 180
tgcatacaggc atcttacctt tatcaccctt gtctctccaa caatcatcag ccctattaca 240
gcagttacct ttggtgcatt tattggcaca aaacatcagg gcacaacaac tcgtgctagc 300
aaaccttgct gcctactctc agcaacaaca gttacctttg gtgcatttgt tggcacaaaa 360
catcatggca caacaactac aacaactcgt gctagcaaac cttgctgcct actctcagca 420
acaa 424

<210> 10142
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-A12

<400> 10142

cacaaggcca caatccaagc cgaagaaccc taggcggtgg cggcgcatcc tgcataagccc 60
acggtagtgt cagcgagcca gcgacctga gtagcagcag aggtccgca ggggcgaaaa 120
ggtgtgaagc ttccttcgga gatcccagta gcagaagcaa cgcaggcatc ggcttgcgac 180
aggagaggac ggagatgacg cagaagcaga ccctgttcaa ggggcagagc aagaagaaga 240
ctatccctcc caaccgccac ggcaaggcgc ctcatgttcg taaaggaaag agagccgtca 300
agcccaccaa gttcacaaag gacatggacg ccgagaagga actcaccaag ttcatcaacc 360
agtgaacga aataaaagct gcgaatcttg cta 393

<210> 10143

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-A2

<400> 10143

cggacgcgtg cgcgaccac tcgtccttaa agatctgtca aacaaacatg tactcatggt 60
ccgtttggac aactttgcaa aagttgacat tccagtgacc aatttgattg aagatgttaa 120
agtgtatatt ggatgaaatt cacaaaaatc tgttcaaaac atatcaagaa aggagagatt 180
catgtgttca ggtcgtaaac tatttgatg aattcacaac tgctctcaat aacaaaaggt 240
acatctaggc tcctttgtgc tatgaagagg aagttcagaa agatgtgaaa tctcgcaaa 300
acagtgaact cgcagctgcg aaaacattgt gtactccatt tgagcagcca gaacttcag 360
aaggtattct gtgctttgca tctggaaagc c 391

<210> 10144

<211> 434

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-011-Q1-K1-A3

<400> 10144

cacgcgtgcg gaggaacta cagaaccaa tgtttgctg agtgatgata tagagacaaa 60
tgagtgtgtg aatgacagcg gttgctgctg gcaagacaaa tctgctaata taacagcctg 120
tagggacacc ttccgtggta gagtgtgtga atgccccact ttcaatggcg tacaatttaa 180
aggcgatggc tacagcaatt gtgaacctgc tggaccagga aaatgcttga taaaccatgg 240
aggatgttgg catgaaactc gcaacggaaa aacattctct gcttgccagg aatctggaga 300
tggaagtgc ctgtgccag ctggtttccg aggggacggc gttaaaaaat gtgaagacat 360
tgatgagtc aaggagaaaa aagcttgtca gtgtcctgaa tgcaactgca aagatacatg 420
gngtggctat gact 434

<210> 10145
<211> 448
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3059-011-Q1-K1-A4
<400> 10145

cggacgcgtg ggcggacgcg tgggcggacg cgtgggggaa aagggacaag ggcaagtga 60
gagataggcg tcgtcgtttg atctgctgcc ggagtgcgaa gaggaagagg aagaggaaga 120
ggagcgccgg agttgtaaag atgttcctgg tggactgggt ctatggggtg ctggcatcgc 180
ttgggctgtg gcagaaggag gctaagatcc tcttccttgg cctcgacaac gccggcaaga 240
ccacctcct ccacatgctg aaggacgagc ggctcgtaca gcaccagcca acgcagtacc 300
ccacgtcaga agagttgagc atcggcagga tcaagttcaa ggcgttcgac cttggggggc 360
accagatcgc ccgccgcgtc tggaaggact actacgcaa ggttgatgct gttgtgtact 420
tggtggatgc tgntgacaag gaacgttt 448

<210> 10146
<211> 453
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-011-Q1-K1-A5
<400> 10146

ccacgtcga ccagacact ccacatgctg gaggtcttt aggtccttac ttaggaggca 60

cgttgtctct gaagctgaca gcttcgtgac caccactggc aacaaggata tcatcatggt 120
 tgaccacatg aggaagatga agaacaatgc cattgtctgc aacattggcc actttgacaa 180
 tgaaattgat atgctcggcc ttgagaccta ccctggcgtc aagcgcatca ccatcaagcc 240
 ccagactgac cgctgggtgt tccccgagac caacactggc atcattgtcc ttgctgaggg 300
 tcgcctgatg aaccttgggt gtgctactgg ccatectagc tttgtcatgt cctgctcatt 360
 cactaaccag gtcattgccc aacttgaact gtggaaggag aagagctctg gcaagtatga 420
 gaagaagggtg tatgtgctcc ccaagcacct tga 453

<210> 10147
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-H1

<400> 10147

gccagtcaac tatttacgct gggataagaa ggaagaacaa tcctctgatt tgtacagatt 60
 ctgccgtctc atgaccaa atccgcaagga atgtgaatct cttggccttg aggacttccc 120
 gacttcagaa cggttgaaat ggcacgatca tcagcccggg aagcctgact ggtcagaggc 180
 aagccgattc gttgccttca ccatgaagga cgaaacaaa ggcgacatct acgtggcctt 240
 caacaccagt caccttccgg tggttgtcgg gcttccagag cgctctgggt tccgatggga 300
 gccggtggtg gacaccggca aggaggcacc atatgacttc ctcaccgatg gcctaccaga 360
 tcgtgctgtc accgtatacc agttctctca tttcctcaac tccaatctgt atcctatgct 420
 cagctactc 429

<210> 10148
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-F5

<400> 10148

caccactct actactcgaa gttactacca gcagcttgt tcaacagtag aagagagcga 60
 gaggatggcg tcaccgaagc cctcgctcggc ggcctgctc ctccctggcg cggcggccgt 120

gctggcgctg gcgcgcgcgg acctgacgca cgacaactgc gtgaagaaca agaaggtgac 180
 ggtgcagaac ctgtgcagcc acgacgtgac gctgacgctg gagccgctgg ccaacagccc 240
 gccgctgttc gcggggcacct acacgctgca cccgcgcagc cacgccgagt tccccgtgtg 300
 ctggtggacg ggggcgcctgc gcgcgcccga cgccgcccag gtggagtcc acgtcggcgt 360
 cgacggcggc tcctttctacc tggcccccaa cgcgagccg ggccagcgcg tccccgtctc 420
 cgtcaccc 428

<210> 10149
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-F6

<400> 10149

cccacgcgtc cggaacatc gaaaattatg ttttgagga ccaggaaact cggtatcgtc 60
 aaaggtatct tgatcttatg gtaaaccatg aagtgaggca catcttcaag acacgatcta 120
 aaattgtctc atttatccga aagtttcttg atgaccgtga atttttggag gtggagactc 180
 cgatgatgaa catgattgct ggtggagcag ctgcaaggcc ctttgttaca catcacaatg 240
 aattaaacat gcggcttttt atgcgcattg ctctgaatt atatctgaag gaactgggtg 300
 ttggtggatt ggaccgtgtt tatgaaattg gaaagcaatt caagaatgaa ggaattgatt 360
 taacacacaa tcctgaattc acaacttggt aattttatat ggcgtatgcc aattataatg 420
 att 423

<210> 10150
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-F9

<400> 10150

attaaaaact gcaagataaa ccattctgta gttggactcc gatcttgcac atctgaaggt 60
 gctatcatag aggacagttt actaatgggt gcggactact atgagacaga agctgataaa 120
 aaactccttg ccgaaaaagg tggcattcct attggtattg ggaaaaattc atgcatcagg 180

agagcaatca ttgacaagaa tgctcgaatt ggagacaatg ttaaggtatt ccaaactgat 240
gttccaacgg tcaagaatat taatttagat ttttccttag gatattacat aatacttgat 300
atgccatfff gtctctttat ttttaacatt tatttttgaa aatattaact tgaaaatatg 360
aataggcttg catgctcttt tttaaatatg actgtctata cttatctttc cctaattgcc 420
tg 422

<210> 10151
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-G1

<400> 10151
gtgtgtgcac aggattcttg atcatttctt ggcaatggac caagcaaatg gtggcgagtc 60
cccatgcttg gatgatgtca tggcatcccc atccttgaca ccgatcacia gtgttgccaa 120
gctaattgac ggctatcttg cagaaattgc accagatata aatttgaagc ctcctaagtt 180
ccaagctctg gcctctgcta ttcctgaata tgcccggcca ctggatgatg gcctttatcg 240
tgccattgat atatacttga aggctcattc ctggctgtca gaagctgaaa gggagcagtt 300
ctgccggctg ttggactgcc agaagctctc cctggaagca tgcacccacg ccgcccagaa 360
cgagaggctg ccgttgcgcg tgggtgtgca agtctcttct ttcgagcaac tccagctaag 420
aacctcgatc gc 432

<210> 10152
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-G10

<400> 10152
ggcattacaa cagtactcaa ttcaaggact tcagttcttg cagctgccaa tccaattgca 60
ggacgctatg atgatcttaa gactgcacaa gataatattg atctacagac caccattctt 120
tctagatttg atcaaattct tattgtcaaa gatatacaga tgtatgacca agataagcga 180
atagcaagcc acattatcaa ggtgcatgcc agtgggtgcag cagcgtcatc cgcaaacaca 240

gaggggaagtg aaggagagaa ttggcttaaa aggtacattc agtactgccg tgcaacatgc 300
aaaccacggc ttccagaaaa agcagctgag atgctgcaga acaaatatat cgagattaga 360
cagaaaaatga ggcagcaagc tcacgagaca gggagggctg cagcaatacc catcactgtg 420
aggcagcttg a 431

<210> 10153
<211> 306
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-010-Q1-K1-G11
<400> 10153

cccacgcgtc cggcttgcca agaggaggaa agccgaagaa gatggaagtg aggaagaatt 60
gaagaggaca agaaatgaga cagaaagcta tacaagcaat ggcagaggcc gtgggagagg 120
tcgtgggaga ggtcgccgtg gtgtacgtgg agcttggcgg gaggtgggtca caagtcctga 180
gcaattcaag gaggagaatc aatctagcaa ggtatatggt ctagtaaata aagtcgtcga 240
tcaaagcatg acaactgtca aatgtatctt tgattaagta aagtatcact caagatttcc 300
agtttc 306

<210> 10154
<211> 426
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-010-Q1-K1-G12
<400> 10154

ggagggcacc aagctaatat tccagttgca aaaggagcgc taggaagagg aagcaacgag 60
ccatggcctc cgggtggccc aaacccaaac tagcctacat catcttgtac gtgagggacg 120
tggagaaggc cgcctccttc tacgacgccg ccttcgggta caccgtccgc cgcctcgacc 180
agtcccgcaa gtgggaggag ctggagagcg gggcgacgac catcgcggtc acgccgctgc 240
accagcggga gacggacgag ctgtcggggg cgggtgcagct gccggactcg tcggccgccg 300
gccggggctc cgtagaggta tgcttcgcct acgcggacgt cgacgcggcg tacaagcgcg 360
ccgtggacaa cggggccgtg gccgtgagcg cgccggatga caagccctgg ggccagaagt 420

ccggct

426

<210> 10155

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-G2

<400> 10155

ggcggatgtg gagaaggcgc tgtgggcca gatcggcatc ttgcatggcg gtggcggcct 60
ggtcggggac agcagctacg gggcgcagga ggaactcgac gaggaagagg ccaaggagat 120
cgacagcgcc cgcgcgcggc gccggaaggc ggcctacgag atggccatcg cctcaggcgg 180
cgccagctcg ctcatcctgt ccaactacgc gcagctcctg tacgagatcg acaaggacat 240
cgagagggcg gagatgtact tcaagcaggc ggtggccgcc gagccggcgg acggcgaagc 300
gatgcggagg tacggcatgt tcctgtggca cgcccgcggc gacacgggcy gcgcggaaga 360
catgttcacc ggcgccattg acgcggagcc cgagagcagc caccaccgga gcagctacgc 420
gt 422

<210> 10156

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-G3

<400> 10156

aaaacatcag ggcacaacaa ctacaacaac ttgtgctagc aaaccttgct gcatactctc 60
agcaacatca gtttcttcca ttcaaccaac tggtgcatt gaactctgct gcttatttgc 120
aacaacaatt accattcagc cagctagttg ctgcctaccc ccagcaattt cttccattca 180
accaactagc agcattgaac tctgctgctt atttacagca gcaacaacta ctaccattca 240
gccagctagc tgatgtgagc cctgctgcct tcttgacaca acaacagttg ttgccgttct 300
acctgcacgc tatgcctaac gctggcacc tcttacaact gcaacaattg ctgccattca 360
accaacttgc tttgacaaac tcaacagtgt tctaccaaca acccatcatt ggtggtgccc 420
tcttttagat tgc 433

<210> 10157
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-G4

<400> 10157

```

cccacgcgtc cgcggacgcg tggggaaggg tgtatactta aattttctta actttctcat   60
aaatgatagc atctatcttc ttgacgagag tttgaacaaa attcttgaac tgaaagaaat  120
agaggctgaa atggctaaca tagttgagtg ggagcgcaga cctgctcaag aaagagagga  180
gcggctgcgt gtatttcatc agtgggaaaa tattgttcgt tttgacatga ggctagccaa  240

tgaggatggt ggaatgcttg cattcactct gaacaaattc cagcaccttt ctttctccct  300
gaaatggtgg aaaggttgc cagcatgctt aattacttcc tcttgcaact tgctgggtccc  360
cagaggaaat ctttgactgt aaaggatccg gagaagtacg agttcaagcc gaagcagctt  420
ttgaaacag                                     429
  
```

<210> 10158
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-G7

<400> 10158

```

atcttttagt aacctttcaa taggcgtccc ccaagaacta gtaaacaatgg caaaactggt   60
gagcctgttc ttagccctct cttttgtagc agctatgttt gccataggct ctcatgctga  120
tgagactgtg gagaatgacc tccaaagcct gataagtacg tgcaagacat acgtgatggt  180
cccagctaata ccaaaggctc ctcttcgga tgcttgctgt ggtgtcatca agaaggcaaa  240
cgtttcttgc ttgtgtcca aggtcaccaa agaaactgag aagggtgtgt gcatggagaa  300
ggttgtgtat gttgctgagc agtgtaagag gccatttgag catggcttcc agtgcggaag  360
ctacaagggt ccagcaaact gatgatatcg caagatggaa gcgcttgacg tagtctttag  420
atttcaattg tt                                     432
  
```

<210> 10159
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-F4

<400> 10159

cgagaacggc tggagaacc gagagcgctc cggaaatgtc ggcgggtgag ctgcggttgg 60
agctggacga gctgcggcgg ctggagagcc tcgccaagca cccccgcgtc cagatcctcc 120
tcgccaacga aatccgcaac gttgaagcga agttggcgaa ggcaaccgaa ccatcgcttg 180
agccactggc ggcggcttct gcgccagcgc ccgcgcccgc tgcgcgtcct gttttaagct 240
acgtcactct tgggtcgttc agctgggagc aggacaacga gaagattagg atatatgttt 300
cccttgaggg agttgagcaa gagaaggtgg agactacttt caagccaaca tcagtggata 360
taaagtttca tgatgtcaaa ggcaagaatt accggtgtgc tataccaaag ctgaacaagg 420
aaattgttcc tg 432

<210> 10160
<211> 273
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-E10

<400> 10160

cccacgcgtc cgactgtatg cattgctagt gtagtattct gtgacaaaac caataatcaa 60
accagccac agacctgtgc aagatgatcc agatgaacga catgatcctg actctgatat 120
ggaagtggat gatcacaagg ctgtggaaga gtcacgagg aggagcattc taggtataaa 180
aatcaagaga gaatttggtg aaaatgcgac cagagttcag gatggtggca gaatcgcat 240
tgaacataga ggactggaac ccatggcaga aga 273

<210> 10161
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-E11

<400> 10161

gatcagcaaa cggcgggtgcg tagagaggat cgtcgaacag aacagcatga agatgggtcat 60
 cgttctcgtc gtgtgcctgg ctctgtcagc tgccagcgcc tctgcaatgc agatgccttg 120
 cccctgcgcg gggctgcagg tcttgtacgg cgctggcgcc ggcttgacga cgatgatggg 180
 cgccggcaga ctgtaccctt acgcgaggta cctgacgcag tcgcagtgca gcccgatgtc 240
 agcagagccc tactacgccc attgtggaca gcctagcgcc atgttagagc ggttctggcg 300
 acaccactgc catgagcata 320

<210> 10162
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-E12

<400> 10162

acaacaactc gtgctagcaa accttgetga ctactctcag caacaacagg ttctgccatt 60
 caaccaacta gctgcattga actctgetgc ttatttgcaa caacaactag tactaccatt 120
 cagccagcca gctgctgcct acccccagca atttcttcca ttcaaccaac tagcagcatt 180
 gaactctcct gcctatgtac agcagcaaca actactacca ttcagccagc tagctgctgt 240
 gagccctgct gccttcttga cacagcaaca attgttgetc ttctacctgc acgctgcgcc 300
 taacgttggc accctcttac aactgcaaca attgctgcca ttcaaccaac ttgctttgac 360
 aaaccagca gcgttctacc aacaacccat cattggtggt gcctctttt agattgctta 420
 tgagttat 428

<210> 10163
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-E2

<400> 10163

ctgactgctg ttcagaactg caaacatatg ccaattatgt gctgtaatat aatcaagata 60
 caatagatct gatgagtggg atacattatg ctgaagataa agataacaag acttcttaca 120
 gttaatgtat acaatcttta gcagctataa gcagactgaa ttacaccaat gttaacacta 180

gcaaggagca tatgcgcctg caaatgatta agtgaaacat atcgatctat atttcaattg 240
 tgcagatatc tatatttgca ttactgcata gtctcgaaca tactgcaact atgaatgttt 300
 gcctccaaat tttccataga tttcgagtca tgagagaatc gagctccata tgtcgactct 360
 gaatttactc tcttttggat gcgatgtgca ttagcctttt cttcataaaa atcaaaatca 420
 tccagaattg atg 433

<210> 10164
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-E3

<400> 10164
 caaggcacia caactacaac aacttgtgct aggaaacctt gctgcctact ctcagcaaca 60
 gcagtttctt ccattcaacc aactggctgc attgaactct gctgcttatt tgcaacaaca 120
 actaccattc agtcagctag ctgctgccta cccccagcaa tttcttccat tcaaccaact 180
 ggcagcattg aactctgctg cttatttaca acagcaacag ctaccacat tcagccagct 240
 agctgatgtg agccctgttg cttcttgac acaacaacag ttgttgccgt tctacctgca 300
 cgctgcgcct aacgctggca ccctcttaca actgcaacaa ttgctgccat tcaaccaact 360
 tgctttgaca aaccaacaa cgttctacca acaaccatc attggcggtg ccctctttta 420
 gattgcttat gagt 434

<210> 10165
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-E4

<400> 10165
 cggacgcgtg ggcagccggg gaaggagcac gcgatggacc cccggcccga ggccatcgtc 60
 caggactaca aggccgcaa caagctcaag gacaagggtg cgctcgtgac cggcggcgac 120
 tccggcatcg ggcgcgccgt gtgcctgtgc ttcgcgaagg agggcgcgac ggtggccttc 180
 accttcgtga gggggcagga ggagaaggac gcggaggaga cgctgcgtgc gctgcgcgac 240

atcgggtccg agacgggccc gcgcgagccg atggccctgc ccgccgacct cgggtacgag 300
 gccaaactgcc gggaggtggt ggagcgggtg gcgtcggcgt acggcggggc catcgacgtg 360
 gtggtgaaca acgcggcgga gcagtacgag cgggagagca tcggggacgt gacgg 415

<210> 10166
 <211> 376
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-010-Q1-K1-E5
 <400> 10166

gcagtgcgta gagaggatcg tcgaacagaa cagcatgaag atggtcacg ttctcgtcgt 60
 gtgcctggct ctgtcagctg ccagcgcctc tgcaatgcag atgccctgcc cctgcgcggg 120
 gctgcagggc ttgtacggcg ctggcgccgg cctgacgacg atgatgggcg ccggcgggct 180
 gtacccttac gcggagtacc tgaggcagcc gcagtgcagc ccgctggcgg cggcgcccta 240
 ctacgccggg tgtgggcagc cgagcgccat gttccagccg ctccggcaac agtgctgcca 300
 gcagcagatg aggatgatgg acgtgcagta cgtcgcgcaa cagctgcaga tgatgatgca 360
 gcttgagcgt gccgct 376

<210> 10167
 <211> 280
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-010-Q1-K1-E7
 <400> 10167

cccagcgctc gccaaaacgt agaacatact aggatgcacg ctgcgtaacc ggctgcgcca 60
 ttatggactt cggcttgaga acgagagcta agtgcataag aactggagcc gcgcgagccg 120
 atgctcaagg ctcatgaagt cgatcgtaga ccaggtcatg gattatgagc acaacgttgg 180
 ccattgctatg tagatatgat gaatgcgtca tgaccaattt gatgaagcat aagattgagt 240
 atcaagattt atttggcaca cagcttggcg ccaaactcggg 280

<210> 10168
 <211> 324

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-010-Q1-K1-E8

 <400> 10168

 cccacgcgtc cggttcatta ttccccaatg ctcaacttgc cctagtgccca ttattccaca 60
 gttgctccct ccagttactt caatgggctt tgaacaccca gctgtgcaag cctacaggct 120
 acaacaagcg cttgcggcga gcgtgttaca acaaccaatt gcccaattac aacaacaatc 180
 cttggcacat ctaaccatac aaaccatcgc aacgcaacag ctacaactat ttgtaccagc 240
 actaaaccaa ctagctgagg tgaaccctgt cgctacttg ctacagcact tgcttggatt 300
 cgacgcactt gctctggcaa acat 324

<210> 10169
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-010-Q1-K1-F1

 <400> 10169

 cccacgcgtc cgctatattt ctacgagggtc caccacttgc aaaggctgct acaggagagg 60
 agatatctgc tgaggacctt ggtggagcat cagtacattg caaggatatca ggagtctcag 120
 atcattttgc acaagatgaa attcatggac ttgagttggg gcgaaacatt gtgaagaacc 180
 tgcacttagc tgctaaagga acaaatattc agagttctgc ttgtgggttac caagagccat 240
 tgtacgatgt agaggaaactt cgctccattg caccagctga tgtgaaacag tccttcgaca 300
 ttcgttcaat aatagcccgt attgttgatg gaagtgaatt tgatgagttc aaaaaattgt 360
 atggaacaac actagtgact ggttttgcaa ggatatgtgg gcaaccagtt ggaattattg 420
 gaaacaatgg c 431

<210> 10170
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-010-Q1-K1-F10

 <400> 10170

attaaaaact gcaagataaa ccattctgta gttggactcc gatcttgcac atgggaaggt 60
 gctatcatag aggacagttt actaatgggt gcggactact atgagacaga agctgataaa 120
 aaactccttg ccgaaaaagg tggcattcct attgggtattg ggaaaaattc atgcatcagg 180
 agagcaatca ttgacaagaa tgctcgaatt ggagacaatg ttaaggtatt ccaaactgat 240
 gttccaacgg tcaagaatat taatttagat ttttccttag gatattacat aatacttgat 300
 atgccatttt gtccctcttat ttttaacatt tatttttgaa aatattaact tgaaagtatg 360
 aataggcttg catgctcttt tttaaatatg actgattata cttatctttc cctaattgcc 420
 tgcataa 427

<210> 10171
 <211> 217
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-010-Q1-K1-F11
 <400> 10171

cggcgctggt gatggtgaat acgaggggggt aggacgatga gtggctgtgg ggatgggaga 60
 ggtgcagctt ggcggcgagg cgcgcttggg cggccggtgt cgggatcgtt caggagcggg 120
 tgctcgagca tggcgctgtt ggggtgcccg cggtgaggct cgccgtgtgg tacattgcgg 180
 tggctgctgc tgtggggggg acacttctgt acgccc 217

<210> 10172
 <211> 421
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-010-Q1-K1-F12
 <400> 10172

gagaaggcgg cggcagtggt cggactcgga ggagccgggg cggcggacgc ggcgcagcag 60
 cagcagctgg cagcagggga ggccgcggtg gcgcgggtgc ggcccggtga gacgctgctt 120
 cgcgcggcac cgctgggggt ctgcgtggcc gccatgaccg tcatgctccg taaccagcag 180
 agcaacgagt acggcgccgt cgctactcc gacctgggag gcttcaagta cctcgtctac 240
 gccaacggcc tctgcgtgct ctactcgtg gtatccgctg tctacactgc cgtgccgagg 300

cctgccaccg tgtcgcgctc ctggctcgtc ttcctcctcg accagggtgtt cacgtacctg 360
 atcctggcgg cgggcgcagc ggccggcgag ctggtgtacc tcgcctacaa cggtgacaag 420
 g 421

<210> 10173
 <211> 431
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-010-Q1-K1-F2
 <400> 10173

aaaaaaciaa cgatatataa atagcagaaa taaaaaata gaaaaggctg atacaaggag 60
 aggagatatt tgctgaagac cttggtggaa catcagtaca ttgcaaggta tcacgagtct 120
 cagatcattt tgcacaagat gaaattcatg gacttgagtt ggggcgaaac attgtgaaga 180
 acctgcactt agctgctaaa ggaacaaata ttcagagttc tgcttgtggt taccaagagc 240
 cattgtacga tgtagaggaa cttcgctcca ttgcaccagc tgatgtgaaa cagtccttcg 300
 acattcgttc aataatagcc cgtattgttg atggaagtga atttgatgag ttcaaaaaat 360
 cgtatggaac aacactagtg actggttttg cacggatatg tgggcaacca gttggaatta 420
 ttggaacaa t 431

<210> 10174
 <211> 416
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-010-Q1-K1-E1
 <400> 10174

aacaaaactg tggaattcta taatatatca aagtaaacad gtttcaggaa acatctggtg 60
 ttaagattgc accggggctg tatttaccag cacatccgtg cttctacgta aacactatat 120
 aacaattata agcagtttca attgcaacca tataaacact ttgaaggagc gtcagtgcct 180
 tcaactagtt cactgaccca tcttgatctt tatttcaatt gtgcagatat ctatatttgc 240
 attactccaa agtctcgaac aaactccaac tctccatgtt tgcctccaaa ttttccatag 300
 atttcgagtc atcagagaat cgagctccat atgtcgactc tgaatttcct ctcttttggg 360

tgcggcgtgc attgccttt tcttcataaa aatcaaaatc atccagaatt gatgtt 416

<210> 10175
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-C4

<400> 10175

gtctgactca gctagctgtg gcaaaccctg ctgcctaccc ccagcaattt cttccattca 60
accaactggc agcattgaac tctgctgctt atttacaaca gcaacagcta ccaccattca 120
gccagctagc tgatgtgagc cctgttgcc tcttgacaca acaacagttg ttgccgttct 180
acctgcacgc tgcgcctaac gctggcaccc tcttacaact gcaacaattg ctgccattca 240
accaacttgc tttgacaaac ccaacaacgt tctaccaaca acccatcatt ggcggtgccc 300
tcttttagat tgcttatgag ttatagttca ataatgaagt tttttggatg atgtttgtgg 360
cttcccagaa ataagaaagt acatttctag attctaaaaa aaaaaacaaa aaacaaacac 420
aaaa 424

<210> 10176
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-C5

<400> 10176

cccacgcgtc cggaacata gaaagtggaa tccagtagca acaacagagc aacaatggcg 60
accaagatat tttccctcct tatgtcctt gctctttctg catgtgttgc taacgcgaca 120
attttcctc aatgtcaca agctcctata gcttcccttc ttccccata ccttccatca 180
atgatagctt cagtatgtga aaaccagct cttcagccct ataggctcca acaagcaatc 240
gcagcaagca acataccttt atcacccttg ttgtttcaac aatcgccagc cctatctttg 300
gtgcagtcac tggtacaaac catcaggga cagcagctgc agcaactcgt gctacctgtg 360
atcaaccaag tagctctggc aaacctttct cctactctc agcaacaaca atttcttcca 420
ttcaaccaac tgtct 435

<210> 10177
 <211> 260
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-010-Q1-K1-C7

 <400> 10177

 ggtaattttt ctacagatga accactgcta gcacagtagt gatccaacaa ctgctgacaa 60
 gatatttagc ctccttaggc ttattgggtct gctgctggaca tgctgatagc acaaccatta 120
 tcacggagtg ctcagaatct gctatagcaa ccgtgctaac tccgtaccta tcacgagaga 180
 cgtcttcgggt atgtgaaaac ccatttggtg aaccttataa gatccaacac gctgtcctag 240
 atggcttggtt acctttatca 260

<210> 10178
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-010-Q1-K1-C8

 <400> 10178

 ctttcatgaa gcactgttca gttcagggtc aaccaaattc agctcccctg aatcatgtgc 60
 agctttgcag attatctcta acatgcattg gatttgctga acgcctgttg tgggttcaaa 120
 tgctggacct aagccataat agtctgagat cagtcgaagg attggaggct ttgcagcacc 180
 ttgtgttctt gaacatcagc aacaaccaga tcagtgggtt cacagcactt gaatccctta 240
 cgaagataat ctcatgaaa gttctggatt tatctttcaa caagattgga gtcactcaa 300
 ttgacacaac acggtatata tgctcgtctc cattctcaca caaatggaa gcaagtgaag 360
 cttttgaagc gtaccagaag gtaaatatca acgtggagga atactgggat gccatactgt 420
 ttttcagatc tctg 434

<210> 10179
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-010-Q1-K1-D10

<400> 10179

cccacgcgtc cgccccacgcg tccggcactg ttttatgtgg tcttcatgct gtcagcctgt 60

gctctgttct caaagacatg gattgaagtt tctggttcat cagcaaagga tgttgctaag 120

cagctcaagg aacaacaaat ggtgatgcca ggccatcgtg agtcaaactt gcagaaggaa 180

cttaaccgat acatccccac tgccgctgca tttggtggtg tatgcattgg cgcattgacc 240

gtcctggctg atttcatggg tgcgattggt tcaggaactg gtatattgct cgctgtgaca 300

atcatatacc aatacttcga aacctttgag aaggaaaggg cgactgagct tggtttcttt 360

ggtttttgat tagtagctgt ggaaccttaa cttggctata gctgaatttt cttgtaagtc 420

cctgt 425

<210> 10180

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-D11

<400> 10180

cggcaagcta gagacgaggc tcgatcagtc cactacgcta aacgaagcag tctccgtgga 60

gaacaagggg aagccgcagc cccagcgtca gcgcgcagct gagcaggaag ctccgagcgg 120

cttcgtgctc cctgacctca acctcccggc agacgtctga cggctgcctg aatctgtcga 180

tcggtggcca gatcgagcta tagcacgcta acctcatagc taaactgtac atagaagaag 240

aagctgcgcc agaaggaggg ggggtggggtt ctgaacggcc acacttacca ggatactgag 300

gcagaagaag aacggagggtt atctttgtgt cataagttgt cgacgttttag ggtttagagc 360

cgtcgtgata gtatcctccg gcctgaacaa cgttgtttta tgttcagagc ggaggaccc 419

<210> 10181

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-D12

<400> 10181

gtccaaaata tccctctgaa gaactgtgcc atgagaagaa ggcattgtac aagcttattt 60

caagattgca ctcctcaatt tcagtgcata ttgcttatga ttaccttctt gatgaatcta 120
ctaactcatg gggacaaaat ctttctttgt tgtatgaccg cgtcctgaag taccagaac 180
gtgtccagaa tetgtacttc acctacctgt ttgttcttcg ggccgtgaca aaagcagcaa 240
attatcttga gcaggctgag tacaataccg gcaatcctga agacgacttg aaaacagaat 300
ctcttgtaga gcagttgctt tacaattcca agttaagatc tgcattgcca ttgccttttg 360
atgaagccaa actttggcaa ggcgaaaatg gtcctgagct aaagcaagag attcagaagc 420
aatTT 425

<210> 10182

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-D4

<400> 10182

aaccgtcccg gcctcagcct catccccagc cacacccatg cccgtgccaa cagccgcatc 60
caagcccgtg ccaacttgaa ggaacctgcc gcgttggcag caccgccatc ctgggccagt 120
gcgtcgagtt cctgaggcat cagtgcagcc cggacggcaa cgcctaattg ttggcttaat 180
ggccggccgt gccggagcaa tgtttgcagg aacttaagcc agttgagccc gcagcaccgg 240
taccaggcga tcttcgggctt ggtcctccag tccatcctgc agcagcagcg taaagcgggc 300
aggtctcgtg gctgttggcg gcgcacatag cgcagcaact gacagcgatt tgcgggctgc 360
atcattcgac tctatgcgt tactcctgtg tcggcgggtg tctccactgt agaaactatg 420
tgctgttgta ta 432

<210> 10183

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-D5

<400> 10183

gtgccttctc atgtcatgtc atcaactatg ttacaagtg tgaaaggccc agttgcctct 60
gcttctgaga caactaactc ccaacaacgc aacagtaacg ctaaaagctg tcagtttcca 120

ggatgtgtga aaggagcaag aggggcatca gggcgttgca tagcacatgg cggcggtagg 180
 cgttgccaga aacctggttg tgagaagggc gctgaaggga ggacaatcta ttgcaaggcc 240
 catggtggag gcaggagatg tcaatttctc ggggtgtacaa agagtgtga agggcgcaca 300
 gaccactgca tagctcatgg tgggtggccgc cgctgcagcc atgaaggttg ctcccagagct 360
 gctcgtggaa aatctggcct gtgtatcaag catggtggtg gcaaaagggtg tcagaaggag 420
 aactg 425

<210> 10184
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-D6

<400> 10184

gtgccttcta tgtcatgtca tcaactatgt ttacaagtgt gaaagggtcca gttgcctgtg 60
 cttgtgagac aactaactcc caacaacgca acagtaacgc taaaagctgt cagtttccag 120
 gatgtgtgaa aggagcaaga ggggcatcag ggcgttgcat agcacatggc ggcggtaggc 180
 gttgccagaa acctggttgt gagaagggcg ctgaaggagg gacaatctat tgcaaggccc 240
 atggtggagg caggagatgt caatttctcg ggtgtacaaa gagtgtgtaa gggcgcacag 300
 accactgcat agctcatggt ggtggccgctc gttgcagcca tgaagggttg ttccgagctg 360
 ctctgtgaaa atttggccct gtgtatcaag catggtggtg gcaaaagggt gtctgatgga 420
 gaac 424

<210> 10185
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-D7

<400> 10185

aggaagtggg caagtgggtga atggtgacaa gaatgttgca tacaccata agaaccttcg 60
 cttacaatga ggctgttttt gtgcttgatc aggattcgtg tctatccagt gatgtttgat 120
 agtttcatca ggcaggagca tagaatggtg aatcttttcg attgaggact gtgaatccat 180

ggatgttcag tcattgtttg tgtagacatt gtggtgagct tggaggccac cccacctact 240
 caataaagca gtgctgggag taatagagca ctgatgtact gaggggtgct aggttaaaca 300
 cgaggaaccg gttatatttg tttcgcggtc gaacacaatc aattttttgt tggtgacttg 360
 tttcttatga ttctacatat ttttaaggttt atgtgctgct ctaaccgtgg tctttgatac 420
 cggttatttt ggat 434

<210> 10186
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-D8

<400> 10186
 ctcacgact ccagattgga gaactcgaca ccatgaaggt gctgatcggt gcccttgctc 60
 tcttggcgt cgctgcgagc gccgcctcca gtacaagcgg cggctgtggc tgccagacac 120
 caccgtttca tctaccgcct cegttctata tgccgcctcc gttctatctg ccgccgcagc 180
 agcagccgca gccatggcaa taccacctc aaccaccgca gctaagcccg tgccagcagt 240
 tcggatcctg cggcgctggc agcgtcggca gcccgttcct gggccagtgc gtcgagttcc 300
 tgaggcacca gtgcagcccg gcggcgacgc cctacggctc gccacagtgc caggcgctgc 360
 agcagcagtg ctgccaccag atcaggcagg tggagccgct gcaccggtac caggcgacat 420
 acggtgtggt cctg 434

<210> 10187
 <211> 236
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-D9

<400> 10187
 cctgaatcaa gtgagaagtt ggcaatgggt gaattttttg ggataaaacc tcctgtgaag 60
 aaggttgata tcgatattgc aacacatata gttgttgaag acgacgggcc aaaaagaagc 120
 atgctttaca tagagacagc cgatcggcct ggcctacttc ttgagataat caagatcatc 180
 gcggacacaa atattgatgt ggagtcagct gagatcgata ctgaaagttt ggttgc 236

<210> 10188
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-C3

<400> 10188

gcggaggtct caagctccag gagtaattcc ggttggatct ggacgacgag gaagctatac 60

atttctttca agatcttatt aaccattgcc ttaggtcttt tgttccttaa attggttaaa 120

accttcctta aatggcttaa tattggccgg taccacagct tatggcctaa aaaccaggtt 180

taatctgtac attcttactg tgacaagcca ccggtataag ccagaaacga cactgatgga 240

tggaagccta agcgcctagc atttgggggt caagctgcgc cgcactctgcg aattgattgg 300

gctcatacac agcatgggca atcttttcgt gcccgtaga cccatgaatt ttggttgatc 360

gatgtcactt ttgatagtat aaattcgtca cgcactgttg tagacctatg ggcatt 416

<210> 10189
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-B10

<400> 10189

cggacgcgtg ggctgcgtac acggtctccc tcttctgtc agtagtagag tgagagtgag 60

gcagcgagtg ggagacaagg ggaaatgggg aaggagcgc aaggagcga tgcggcggcg 120

gcgggcggcg aggtggagga gaacatggcg gcgtggctgg ttgccaagaa caccctcaag 180

atcatgccct tcaagctccc gcccgctggc ccttatgatg tccgctgcg catgaaagca 240

gtggggattt gcggcagcga tgtgcactac ctcaggaga tgcgcatcgc gcacttcgtg 300

gtgaaggagc cgatggtgat cgggcacgag tgcgcggtcg tggtcgagga ggtgggcgcc 360

ggcgtgacgc acctgtccgt gggcgaccgc gtggcgctgg agccgggcgt cagctgctgg 420

<210> 10190
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-B11

<400> 10190

ggcaaagatt acatatatgc cgtcaccccc ttacttgaag atgctttaat ggatagagat 60
ctgggttcacc ggcagactgc tgcattctgct gttaagcaca tggctctagg tgttgctggc 120
ttgggttggtg aggatgctct tgttcatctg cttaactatg tttggcccaa catatttgag 180
acatctcccc acgttataaa tgctgtcatg gaggcaattg aggggatgag ggtcgcacta 240
ggtgctggctg tgattttaaa ttattgcctg caaggtctct tccatccagc aaggaaagta 300
cgagaagtgt attggaagat atacaactct ttgtacatcg gcgcgcagga tgcacttggt 360
gcttcttctc ctgccctgga agacgatggg gataacatct ttagtcgtcc agagttggc 419

<210> 10191

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-B2

<400> 10191

cccacgcgtc cggccctaatt cttcatcacc aactgatagc tgaacgcggc atccttcctg 60
tcatccccctc ttatgccac atttcgttcc tttcacaccg gagaccggag agcagagacg 120
tgcacagcag aacgcggaag caagaggagg cgategacta ctcgaccaga cctctccggt 180
cttgtctccg atggcggtc gcgtactagc ggccctagct ctcgccctcg cctcgtcgg 240
cctaccgcg cccacgcggg cgtccaacga cgagggggac gcgctctacg cgctgcggca 300
gcggctgtcg gaccccaacg gcgtgctgca gagctgggat cccacgctcg tcaccctctg 360
cacttgatc cacatcttct gcgaccaggt cggtcgcgtc gtccgcctgg acttgggcaa 420
ctc 423

<210> 10192

<211> 342

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-010-Q1-K1-B3

<400> 10192

gagacgaccg ccgcccgcac ggaccgtgcc cgagcccccc ttctcctcgc tgactcggct 60

ccctcctccc gccgtcgccg gaggcgaagc aagtggggac cacagaagca ttagctgggt 120

gaaccctctc aaagggggca gggaattgtg tgctagtttg aatggctgct acaaagcttc 180

aggccctttg gaaccacccg gctggcccca aaaccattca tttctgggcg ccaacattca 240

aatggggcat cagcattgcc aacatagccg actntgctaa accacctgaa aagatatctt 300

accctcagca agttgctgtt gcatgcactg gactcatttg gt 342

<210> 10193
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-B4

<400> 10193

cactactaca gtgcccgcgc ccgctgcgtc caccaccacc tcctttccca actcctccgc 60

gtacccccgc cctctccggc ggcccgcgta accaccgcgc cagatggcga cgggggccac 120

ggcgtccgcg acggcgggca cccgcttcac gtccttagcg ggcgcgggcc tccgcagccg 180

catcacccgc ctccccaccg ccgtgcggtt ccagcgccag cggggggtca ccaccaccgc 240

gtcctgaag accgccgacc tgcagcccaa ggagcagggc aagccccaga cgctcgacta 300

ccgcgtgttc ctcgtcgacg gcggtggccg gaaggtgtcg ccgtggcacg acgtcccgtt 360

gcgcgccggg gacggggtgt tccacttcgt cgctcgagata cccaaggaga gcagcgccaa 420

gatggagggtc gcc 433

<210> 10194
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-B5

<400> 10194

ggcaagtggg aggcacacc agaggatgat ataagacatt ggtccaagtt cccatcattt 60

atgcctcttc tgagtcagat tgagacagac ggtggcaagt ctctggactt tagcaactat 120

ccttacatat ttatgagatg gaaagaacag tattttgtca atgttggagt tgactgtggg 180
 ttaaccatcg ctggtttcta ctacgtctgc ttttcttgta gcgatggctc catcagtgga 240
 ttttattatg atccaaatag cagtcattt cagaagctcg aattgaagtg taccaatgag 300
 aaaagttctg gattcacctt ttcatectat gagctgcagt gacagggcca gatgcatata 360
 gtgtgtactg aactcatact cgcctaatgc tgctgtattg aaagaaacga gtggtggttt 420
 atgcaacact 430

<210> 10195
 <211> 411
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-010-Q1-K1-B6

<400> 10195
 cggacgcgtg ggcgcacgca tgcgaggaca ggtacaacaa gtccaagctc gtgcactcca 60
 tcatgcgcca cgtegccgag acgctcgagg tcgacctega gccgctctac cagcggattg 120
 gctggccgct ctaccgcaag tacggtcacg ctttcgaggc cttcaagctc atcgttgcgg 180
 accctgacgc tatectcgac gtactcacct atgaggaaaa ggaggtcggc ccagatggcc 240
 aggaggtggc taaggtggtg cctgctgtca cccctgaggt taaggattca ctggtgaaga 300
 acataaggag gaggatgaca ccgcagccac tcaagatccg tgctgatata gagatgaagt 360
 gcttncagtt tgatggagtg ctccatatta agcaagctat gaagaaagct g 411

<210> 10196
 <211> 276
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-B7

<400> 10196
 gctttaagag catctgcaaa aggttcctta aagcgacaga cttcaattac aaatgcaaat 60
 actagagcag ttcagcaagt gatgatggaa ggaaacaccc aaacattacc cagggggcca 120
 ggacacaaac aaaggttttt caacaccaca acctggctcg acaggcaaac agattcctgc 180
 gagcagagca gtatttgcac atgcaattga agtcatgacg ctttaagagc atgtcgcaaa 240

cggttacttg gggcataagc attgccaaca tagccg

276

<210> 10197

<211> 108

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-B8

<400> 10197

gcggcgatga ttgagtaata atgtgtcacg catcaccatg ggtggcagtg tcagtgtgag 60

caatgacctg aatgaacaat tgaaatgaaa agaaaaaagt attgttcc 108

<210> 10198

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-B9

<400> 10198

cggacgcgtg ggtagctgca ttgaactctg cttcttattt gcaacaacaa caactaccat 60

tcagccagct acctgttgcc tacccccagc aatttcttcc attcaaccaa ctggcagcat 120

tgaactctcc tgcttattta cagcagcaac aactactacc attcagccag ctagctggtg 180

tgagccctgc taccttcttg acacaaccac agttgttgcc gttctaccag cacgctgcgc 240

ctaacgctgg caccctctta caactgcaac aattgctgcc attcaaccaa cttgctttga 300

caaacctagc agtgttctac caacaacca tcattggtgg tgccctcttt tagatttctt 360

atgagttata gttcaataat aaagtttttt gtctgatgtt tgtggcttcc c 411

<210> 10199

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-C1

<400> 10199

gactactaca gtgcccgcgc ccgctgcgtc caccaccacc tcctttccga actcctccgc 60

gtacccccgc cctctccggc ggaccgcagt aaccaccgcg gcagatggcg acggcggcca 120

cggcgtccgc tgacagcggc gacccgcttg acgctcctag cggacgccgg cctccgcagc 180
cgcatcaccg gcctgcccac cggcgtgagg ttccagcgcc agcggggggt caccaccacc 240
gcgctcctga agaccgatga cctacagtcc aaggagcagg gcaagcccga gacgctagac 300
tacacgcgtg atcatggtcg acggcggagg ccggaagggt tc 342

<210> 10200
<211> 425
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-010-Q1-K1-C10
<400> 10200

cccacgcgtc cgcccacgag tccgctccgt cctcgaagc ttctctgggt tcagacgcaa 60
ccccgcgggt cgcgggatca aggagccaga gagcgggacg cagcagcgt tccgccggag 120
atcgagaccg tagctagggt ttgaggcgcc gggctgagggt ggacgagatg tcgacgccgg 180
cgaggaagcg gctgatgcgg gacttcaggc gcctgcagca ggacccgccc gccgggatca 240
gcggcgcgcc gcacgacaac aacatcatgc tctggaacgc cgtcatattc gggccggatg 300
atacgccgtg ggacggtggc acgttcaagc ttaccttgca gtttacagaa gattacccaa 360
acaagccacc aactgttcga tttgtctcta ggatgtttca tccaaatata tatgctgatg 420
gaagc 425

<210> 10201
<211> 418
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-010-Q1-K1-C11
<400> 10201

cggacgcgtg gggcagcagc cgcagccatg gcaatacccc actcaaccac cgcagctaag 60
cccgtgccag cagttcggat cctgcggcgt cggcagcgtc ggcagcccgt tcttgggcca 120
gtgcgtcgag ttctgaggc accagtgcag cccggcgagg acgccctacg gctcgccaca 180
gtgccaggcg ctgcagcagc agtgctgcca ccagatcagg caggtggagc cgctgcaccg 240
gtaccaggcg acatacgtg tggctcctga gtccttctg cagcagcagc cgcagggcga 300

gctcgcggcg ctgatggcgg cccaggtagc gcagcagctg acggcgatgt gcggtctgca 360
gctgcagcag ccaggtccct gcccttgcaa cgcagctgcc ggcggtgtct actactga 418

<210> 10202
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-C12

<400> 10202

gacactgggt ggtgtcatga ccaagattat cccacggaat acaaccttgc ctacctcaaa 60
gtcgggaagtt ttctcaacag cagctgatgg ccagactagt gtggagatca atgttctcca 120

aggagaaaga gagtgtgtga gagacaacaa gtctattggt agcttccggc ttgatggaat 180

ccctcctgcc ctacgtggtg taccacagat cgaagtcaag ttgatattg atgctaacgg 240

tatcctctct gtcagtgtg tggacaaggg tacagggaag aagcaggata tcacaattac 300

tggtgctagc actctgccaa aggacgaggt ggagaggatg gttggcgaat ctgagaagtt 360

tgcaaaggag gacaaggaga agcgagacgc cattgacacc aagaaccaat ccgagtcggt 420

catctac 427

<210> 10203
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-C2

<400> 10203

cgcatctctc ccatctccca agacctcctc agacccgaga agcgagctg cggccatgga 60

cgccaccggc actggagctg gagggaaggg gaagaagggg gcggccggtc gcaaggccgg 120

cgggccgagg aagaagtcgg tgacgaggtc cgtgaaggcc gggctccagt tccccgtcgg 180

ccgcatcggg cgctacctca agaagggccg ctacgcgcag cgcgtcggca gcggtgcccc 240

cgtctacctc gcggccgtcc tggagtacct cgccgctgag gtcttgagc tcgccggcaa 300

cgctgccaa gacaacaaga agacgcgcac cgtcccgcgc cacgtgctgc tggcgatccg 360

caacgacgag gagctcggga agctgctgac cggcgtgacc atcgcccacg gcggcgtgtt 420

gcccacatc aa

432

<210> 10204
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-B1

<400> 10204

gtcgaccag cgtccgcca gcgccgtcg gaaatctcca tcccgcacg ctgaaggagg 60
gccaggttg gcatggcaac cttctcgagg ttgacgtga ggaggttgcc gttcatcttg 120
acgaaccgca agagctcgtc gaaggagccg aagagcccaa gccagaattc aaaattgcgg 180
aggaacgagg ggctgcggaa ccgcatctgg gcggcgatga ctacctggcc gacctgggtgg 240
cttgacaggc cgaggctgcg gagctcggcg acgcggagag acagggctct cccacgctcg 300
gtgcaaagga gtctgggac attggcgatg acggttgatg ggtcgggtgcc ggagatgtcg 360
aggcccgcca ggaaggcgag gacgacgtcg ggcttcgagg gagacctgag gtcgaggatc 420
cttttgattt tggatgcctt gaggacct 448

<210> 10205
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-H2

<400> 10205

gccattcgat gagcttggtt ttgacagcaa ggattttgat gtcgctgcac tgatgaagtg 60
tattgatgct agcaccatcc ctagagttgt cacttttgac aagaaccctg acaaccaccc 120
atacctcatg aaattcttcc aaagctcagc cccaagggt atgctgtttt tgaacttctc 180
caccggacct tttgattctt tcaagtctgc ctactctgct gccgcggagg aattcaagga 240
caaggaaatc aagttcctta ttggtgacat cgaatccagc caggggtgcct tccagtactt 300
tggcctgaaa gaggaccaga cacccttat cctcatccag gatggtgact ccaagaagtt 360
cttgaagggt cacgttgagg ctgaccagat cgctcgttgg ttgaaggagt actttgacgg 420
caaattga 448

<210> 10206
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-009-Q1-K1-H4

<400> 10206

 cgcaaattgc accaagaaat ccatcgagag gccgtcgaca ggggaattaa tggcgtcggc 60
 gtctagcagc agccaccgcc gcctcactct cgcagccgcc gtcctgctct ccgtgctcgc 120
 ggctgccagc gccagcgccg ggacctcctg cgtgccgggg tgggccatcc cgcacaaccc 180
 gctcccgagc tgccgctggt acgtgaccag cgggacctgc ggcatcgggc cgcgcctccc 240

 gtggccggag ctgaagagga gatgctgccg ggagctggcg gacatcccgg cgtactgccg 300
 gtgcacggcg ctgagcatcc tcatggacgg cgcgatcccg ccgggcccgg acgcgcagct 360
 ggagggccgc ctagaggacc tgccgggctg cccgcgggag gtgcagaggg gattcgccgn 420
 caccctcgtc ac 432

<210> 10207
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-009-Q1-K1-H5

<400> 10207

 atgtgaaccc ttggagcgta atcattgcga tatcatactt gatacattat gtaaaaaaac 60
 aatggaaaaa ctactacaac cttcacgac atgcagagat gtgttaaaaa caacacacaa 120
 cacacttgag tccccaaaga ctatgaactt ggagatcttt ggaattcatt ctatgaatgg 180
 agcgcctgtg gcgttggtac ttcagtgtgc atcgctccgg gtgagacagt ggttcaatac 240
 ttagtgccat atctattagc aattcaattt gtacaccaac acgagaaatg ctctgttttc 300
 acatagcatg atttatgatg gaagattcga tcggaataac cattatagtg tttggatgta 360
 cactcatgga tttcaagctc tattacgcat gcacactatt gtagttgaat ggaatgggga 420
 g 421

<210> 10208
 <211> 359
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-H6

<400> 10208

accacgcgtc cggggtcggc ttctcctccc cctccggctc gggtcgggt tcgtgaggtc 60
 ctccggggtt cgggttcgtg ggtgagcgga tcgagatggc ggcgtcgat gttgagtacc 120
 gctgcttcgt cggcggcctc gcctgggcca cggacgacca ctccctacac aacgccttca 180
 gcacctacgg cgaggtcctc tagtccaaga tcattctcga tcgggagacg cataggtccc 240
 gcggttcgg cttcgtcacc ttctccacgg atgaggcgat tcggaacgcc atcgagggca 300
 tgaacggcaa ggagcttgac ggtcgcaaca tcaccgtcaa cgaggcccat tcccgtggc 359

<210> 10209
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-H7

<400> 10209

cccacgcgtc cgcagaaaca cacctagcga agcgactag caacgaccta acaacaatgg 60
 ctaccaagat attatccctc tttgcgttc ttgccctttt tgtgagcgca acaaatgcgt 120
 tcattattcc acaatgctca cttgctccta gtgccattat tccacagttc ctccctccag 180
 ttacttcaat gggcttcgaa caccagctg tgcaagccta caggctacaa caagcgcttg 240
 cggcgagcgt cttacaacaa ccaattgccc aattacaaca acaatccttg gcacatctaa 300
 ccatacaaac catcgcaacg caacagcaac aacaatttct accagcactg agccaactag 360
 ctgtggtgaa ccctgtcgcc tacttgcaac agcagttgct tgcattcaac ccacttgctc 420
 tggcaaakat agttgcatac caacaacaa 449

<210> 10210
 <211> 361
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-009-Q1-K1-H9

<400> 10210

gtgcgctctc gctctccctc tgtctgcgac gagacttggg gggctaccgc cgctgcgctt 60
cgccaggtgc tgacgccttc gccgatcact tcgccggcga tagcactcac caggaatggg 120
cctgtggaca ttgctggagg gttttttgct tcttgcaa at gcgttagcga tattgaacga 180
agaccgcttc cttggtccaa ggggatggag catgtctgaa gtatcaggaa acgggcaa ac 240
caagtcgttc aagggccaga tcgtggggct tatctacgct acacagtttc tgcggatgcc 300
cttaattgct ctcaacgttc tcatcatcng tgtcaaattg gtgtctggct gagcctgatg 360
a 361

<210> 10211
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-A1

<400> 10211

gcaacataga aagcacaata gtgtaccaac aatggcagcc aaaatatttt gcttccttat 60
gctccttggg ctttctgcaa gtgctgctac cgcaaccatt ttcccacaat gtcacaagc 120
tcctatagct tcctttcttc cccatacct ctaccagcg gtgtcttcag tatgtgaaaa 180
cccaattctt caaccctaca ggatccaaca ggcaatcgca gcaggcatct tacctttatc 240
acccttggtc ctccaacaac cgtcagccct attacagcag ttacctttgg tgcattttgt 300
tggcactaaa catcaaggca caacaactac aacaacttgg tgctaagaaa cttgctgcc 360
tactttaagc aacagcaagt ttcttcatt caaccaactg gctgcattga actctgctgc 420
ttatttgcaa caacaacta 439

<210> 10212
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-A2

<400> 10212

cccacgcgta cgcccacgcg tccgcggacg cgtgggggga ggcagcagct gttctggggc 60
 ggcgtgattg gagatatgaa caaaatgaaa atcgatggcg acaataactt tggggagcag 120
 aagagccatc accgatgcag ggcgaagaag catgatgtga ggattttgga ttccttgagt 180
 tgaagagctt cataaggcta aaagtgggtga agcgtacatg tgttggttgt agtggtcctt 240
 cactagcagc agctatttat cgatagcatg tctttgttgc agcatccact gatagagcag 300
 acaactagtt actagtgttt cgacattttg tatggcacag atgtttcata atagtccct 360
 agtatctggg cgagaatttc catgagttta tctatgacgg cttcaaagtg tagcttatgt 420
 gctaagaaca tg 432

<210> 10213
 <211> 364
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-010-Q1-K1-A3

<400> 10213

nccacgcgtc cgagaactga aacggaactc cctctctgcc tcatggtctc tgcggcggcg 60
 gaatccgac cagcatctt cgctcagact tgggtggtga cgagcagcca tagatgtgca 120
 gacatcccta ttggaagaag atccgaacaa gaattatcaa gaagacaaaa ggagtgttga 180
 aacaggagtg catcaacttt catgagataa tgatccagtg gacgtgccaa tgacaaggtc 240
 atagaagaag ctatgcttga ggaagctatg agtgactgaa ggatttcatt ttccgtacta 300
 tcatgtttca actttcattg gccagtcac aaagaagtat atgatgtgtt tggatttggg 360
 gttc 364

<210> 10214
 <211> 69
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-A5

<400> 10214

ccttgttcgg tggatttacg gtctgtataa tatttatgca cgcttgcaact ttatccatgg 60

tatttgat

69

<210> 10215
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-A6

<400> 10215

ctggatctag agcgcaagcg tggcgaatgg cagtaaattt ctacactgaa gcaatataga 60
taaataaaaa agtggctgca tactacagca acagacctgc tgcctttcta gaactaacta 120
gctaccgtca ggctgaggca cattgcacaa gtgccatcga actcgattcc aagagcgtga 180
gaagcttatt tacggagagg cactgcaagg gagatgctag gttattataa ggaggccgca 240
gatgatttca accacgcgct tggtctataa ccaatgaaca agacctgtgg tgcgccatc 300
aacaggttcc agaagctgtg tgcttgaata tgaatctgca tgaagatatg ataaccatga 360
tattttgtgc acacacaaga tgtgcgtgtc acagatgcgg gattgaagta cctgactaca 420
accgacggat gct 433

<210> 10216
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-A7

<400> 10216

cccacgcgtc cgtcggaat ctccatcccg catcgctgaa ggagggccag gttgggcatg 60
gcaaccttct cgaggttgac gctgaggagg ttgccgttca tcttgacgaa ccgcaagagc 120
tcgtcgaagg agccgaagag cccaagccag aattcaaaat tgcggaggaa cgaggggctg 180
cggaaccgga tctgggcggc gatgactacc tggccgacct ggtggcttga caggccgagg 240
ctgcggagct cggcgacgcg gagagacagg gtcttcccca cgtcgggtgca aaggagtctg 300
ggatcattgg cgatgacggg tgtgaggctg gtgccggaga tgtcgaggcc cgccaggaag 360
gcgaggacga cgtcgggctt cgaggagac ctgaagtcga ggatcctttt gattttggat 420
gccttgagga cct 433

<210> 10217
 <211> 159
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-010-Q1-K1-A8

 <400> 10217

 gggcagggga ggaaaaaat ctaaccctag catccgcagc gctaggggttc ggcggttgcg 60
 atggcggctg cactcatgta ccctcagacg ttgaagtgtt ccagcagccc taaatgctca 120
 gacatcctca tcgtaagaag ctctaaca gatttatta 159

<210> 10218
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-009-Q1-K1-H11

 <400> 10218

 gtgagtttga cgtccaaggc taccgcacct tgtacttcgt gaccccgagc gggaagggtga 60
 catcctacga cagcggcagg acggcggacg acatcgtcga cttcatcaag aagagcaagg 120
 agaccgcagg cgccgccacc accaccacca cccaggcgcc accggcatcc gagaaggcag 180
 ccgccgccga gcccgtaag gacgagctgt gagcatccaa ggtgtggacg gctgtggctg 240
 cgtaagcatg ggaggaaaac ctggcgctaa cgtgcctcca acgcctagtt tttgcgggac 300
 cagagggaga gagagagagg gacggagtta gagagagagg ggatctgcga cgtgttttgc 360
 tctgcggcgg catgtctgtg tatccattg aagttatgta cacaattaca ccgcggtcgg 420
 t 421

<210> 10219
 <211> 447
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-009-Q1-K1-F8

 <400> 10219

 cgtcgagacc caaccatacc agcggcgccg caggctgacg aggaggcgga gtagagtggc 60

cggactacct cgacacctcc actgcaacca tgggtatctc acgtgattcg atgcacaagc 120
 gccggggccac cgggtggaaag cagaagacgt ggcgcaagaa gcgaaagtat gagcttggcc 180
 gccagcctgc taacaccaaa ctgtctagca ataagacagt gaggaggggc cgtgtccgtg 240
 gaggcaacgt gaagtggagg gctctccgat tggatacagg taactactcg tggggaagtg 300
 aggctcttac ccgcaagacc cgcctcctgg atgtggtcta taatgcatca aacaatgagc 360
 ttgtgaggac tcagactctt gtgaagagcg ccattgtaca agttgatgct gctccattca 420
 agcagtggta cctcactcac tatggag 447

<210> 10220
 <211> 423
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-009-Q1-K1-F9

<400> 10220

aaaaatatga attcatgaca tctgatcacc agtatatttc ccggaacat gaggaggata 60
 aggtgattgt gttcgaaaag ggagatttgg tatttgtgtt caacttcac tgcaacaaca 120
 gctattttga ctaccgtatt gggtgtcgaa agcctggggg gtataagggt gtcttggact 180
 ccgacgctgg actatttggg ggatttagca ggatccatca cgcagccgag cacttcaccg 240
 ncgactgttc gcatgataat aggccatatt cattctcggg ttataacca agcagaacat 300
 gtgtcgtcta tgctccagtg gagtgataac cgggtactcg ttgctgcgcg gcatgtgtgg 360
 ggctgtcgat gtgaggaaaa accttcttcc aaaaccgcga gatgcatgca tgcattgtac 420
 aat 423

<210> 10221
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-G1

<400> 10221

gtcaagaagt gcgttgagct gttttttgag attgcggaga acaaggagga ctacaacagg 60
 ttctatgagg tcttctccaa gaacctcaag cttggcatcc acgaggactc cacgaacagg 120

accaagattg ctgagctcct gaggtaccac tcgaccaaga gcggggatga gctgaccagc 180
 ctcaacgatt atgtgaccag catgaacgag ggccagaacg acatcttcta catcactggc 240
 gagagcaaga aggctgtgga gaactacccg ttccttgaga aactgaagaa agagggctat 300
 gaggtgctgt tcatgggtga tgccattgac gagtattcta ttggacagct gaaggagttt 360
 gagggcaaga agctcgtctc tgccaccaag gagggcctga agctggacga gagtgaggat 420
 gagaagaag 429

<210> 10222
 <211> 452
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-G12

<400> 10222
 ttccgggtcg accagccgtc ggggtcttaa ggcacaccaa accacactgc gaccacaga 60
 aggcgaggcg aaaggcaagg caaagcggcg cgggtgggcat gatgtttgac gatcaagacc 120
 tgggcttctt tgccaatttc ctgggcatct acatctgagc ctaggttatt gcgtaccact 180
 ttgagaaggc ataaccgaga tacgcaagta actggtgtcc tttagtgcga agatcccatt 240
 atttgcaagc cgaattacgg ctctccagag agcttgagct agagagatgg cttgaaacgt 300
 tcattgcgta ctatggagcc taggcatgca actgctggca taataggcat gtccaaggct 360
 gaatacgctg aattagagaa tactggagaa ttcaggaacc gtgttaagta ctgcagatgg 420
 gcggcagtat ctctactaa tgtatgcatg cc 452

<210> 10223
 <211> 272
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-G4

<400> 10223
 ccgtcgtcgt gggctcccggt cgctggagac accaatgggt gtactgggtg gggcccatgg 60
 tcggcgccgg cctctccggc gtcgtctacg agcacctcgt cgccggcccg gccgccgagg 120
 aggaggagcc cgcgccgagc tcgggcgacc gccgtcgtgc gtagaggact acatgcatgc 180

aagagcagca ggacgtcgtc gtcgtccccg ctccctcggaa tcttctgaat aaaaaaaaca 240
gcttgcatgc gtgctcaatt gttgtgtgtc gt 272

<210> 10224
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-G5

<400> 10224

ggtgttttga aggaagccag ggttttcaag gaactggtgg tagcaccaac atcaaaggct 60
cttgtccatg ttttctttgc acaacgttcc acgacaaagg tgccagggtg aactgatgtt 120
caactgaaac caaggccaat tagaaaagtt gctgttattg gtgggtggtct gatgggctct 180
ggaattgcta catcacttct tgtagcaat atttctgttg tgctcaagga agtgaaccct 240
cagtttctgc aaaggggaga gaaaatgata gcaggtaatc ttgagggcct gataaaaaaa 300
ggttcactaa caaaggatag gatgcacaag gccatgtcgc ttttcaaggg cgctttggat 360
tattcagatt tcaaggatgt tgatatggtt attgaggctg ttattgagaa gattcctttg 420
aagcaatcga tattttctga cattgaaaa 449

<210> 10225
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-G6

<400> 10225

gcctgacata gttgtagcaa ccctggggcg cataatagat catctgcgca attctctttc 60
tggtgggctt gaagatctag ctgttgtgat ccttgatgag gctgatcgtc tgcttgaatt 120
gggcttcagt gctgaaattc aagaactgat tcgtatgtgt cctaaaagga ggcaaactat 180
gcttttctct gctacaatga cagaagaaat tgatgaactt gtaaagcttt cactaaacaa 240
gcctgtacgc cttgaagctg atccttctct gaaacggcct gcaacattga ctgaagaggt 300
tgtaggata cgacgagcac gtgagtcaaa tcaagaagct gttcttcttg cactcttggt 360
gaagactttc aagcgaagtg ttatcatttt tagtgggaca aagcaatctg cacacagggt 420

aaaaataata ttggtctct ctg

443

<210> 10226

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-G7

<400> 10226

gggcgcggcc ggggtggcgg tgcccacgta ctgcgccgac ccgcacgccg acttcctccg 60
gtccatggag gagatggccg cggcgctgcg gctggacgcg cggcgcccgcg gcgacagggc 120
gcgcctccac gagctgctgc tctgctacct cgcgctcaac gacaggcgcg cgcacaagta 180
cgctcgtcagc gccttcaccg acctcctcct ccgcctcacc gccgcgcgcg cagccgccaa 240
cctcagcgac gacgaccggc acgagtaacc gccttttttt tcacggtcac ggccgtgcgt 300
acggacagaa tttcgggtac ggccggaggct caaaaatcct cgacagcatg agcgagcggt 360
ccaagatcac ccagagctgt acatactgcc tccagctcca gatcgagctc cgtagctaga 420
aatctgttcg tgtgcgcagc attttg 446

<210> 10227

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-G8

<400> 10227

cggacgcgtg ggccggacgcg tgggaccatg aggggtgttg tcgttgccct cgctctcctg 60
gctctcgctg cgagcgccac ctgcacgcat acaagcggcg gctgcggctg ccagccaccg 120
ccgcgggttc atctaccgcc gccggtgcat ctgccacctc cggttcacct gccacctccg 180
gtgcatctgc caccgcgggt ccacctgccg gcgccggtcc acctgccacc gccggtccat 240
gtgccgccgc cggttcatct gccggcgaca ccatgccact accctactca accgccccgg 300
cctcagcctc atccccagcc acacccatgc ccgtgccaac agccgcaccc aagcccgtgc 360
cagctgcagg gaacctgcgg cgttggcagc accccgatcc tgggccagtg cgtcgagttt 420
ctgaggcatc agtgcaaccc ga 442

<210> 10228
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-H1

<400> 10228

ctccctcagg tttagtgttc gcaatggcgg cttcaacaa gcttgggtggc cttctaaggc 60
acagtgtctt ggtgagcggg atcactgggtg gctcttctcc tgcagtgttc aatgctgcac 120
ggctcatgtc taccaagcta tttattgggtg gtcttgactg ggggtgtgat gacgtgaaac 180
taagagaagc atttagcagc tttggagagg ttactgaagc gaggggtgatc acagacaggg 240
agactgggag gtcaagaggc tttggctttg tgaactactc cgacagtgat gctgccaaagg 300
aagctatttc tgcaatggat ggcaaggaaa ttgatgggcg gcaggtacgt gtcaacatgg 360
ctaattgagag acctgctggg aaccgtgggtg gtggcggcta tgggtggcggc ggctatggag 420
gtggtggcta 430

<210> 10229
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-E2

<400> 10229

cgaagatatt cttaggtgta tgaagaaagt cacaccaatg gacttgaagc agactgttca 60
agtagataaa gaccttgtga tccgtgccta ttatgctgga catgttatag gggctgccat 120
gatttatgca aaagttgggg atgctgctat ggtatacact ggggattaca atatgacacc 180
agatagacat cttggggccg cacagattga tcgtctgaag ttggatgtat tgataacaga 240
gtccacatat gctaaatcta tacgtgactc aaagcctgtc cgagagaggg agttttttaa 300
agcggtagat aaatgtgttt ctggtggagg taaagttcta attccaacgt ttgctctggg 360
aagagctcac gaactatgta tgttactgga tgactattgg gagaggatgg gcttgaaagt 420
tcctatttat ttttcaactg gtttaacca 449

<210> 10230
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-E3

<400> 10230

gattccgggt cgaccacgct cgatcgcgcg cgctctttgt gcgcgcatgg agaagcgcgga 60
atgcttgcaa atagacagcc taccacagtc agtctgcgcg gtcctaccca attagactcg 120
agacgctaaa aaaaggtgtg tgagatccac tggggcacaa gtttttgaaa agaaatgtct 180
cacgggggtt gagctggccg attgctgcaa cagttcatga acaagtctgc atgaaaggat 240
gcctttcacc tttgggtccg ggttaccct tccatgtcct tcgtatcaac aagatgcttt 300
cgtgtgctgg ggctgatagg ctccagactg gaatgagggg tgcctttggc aagccttaag 360
gcacctgttc taagtggtgac aattggcagg tactcc 396

<210> 10231
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-E4

<400> 10231

cttcgcacgc gaaaacccta gcagttcggg agtccctctc ctctcgaggt attagcagtc 60
gaccggttcc tcggagcacg atgaagtttg ctgctgccta cctgcttgct gtactcgctg 120
ggaacgccag cccctgcggg gacgatttga ctgccattct ggagtcagtt ggctgtgaag 180
ctgacaatga aaagatggaa ctctgctgt cccaactgag cggtaaggac atgaccgagc 240
ttattgccgc gggcagggag aagtttgctt cagtcccatg tgggtggcggc ggtgtcgctg 300
ttgcggcagc tgcacctgct gctggcggag ctggctcctgc agctgatgca gagaaagaag 360
agaatgtgga agagaaagaa taaagcgatg atgatatggg cttcagcctc ttccactagg 420
ctgaacagcc atcacagtat tgttttt 446

<210> 10232
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-E6

<400> 10232

agcctttatc cattcttgtg tttctcgatt ggattgttgt taaacactat tgctatcttc 60
taccgatcat tagcagctat accatttggc acaatggttg tcatgtttat tctttgggct 120
ttcatctcct tcccgttggt tctattgggg actgtagttg gtagaaattg gagtgggtgct 180
cccaacaacc cgtgtcgtgt gaaaacgatc ccgcgcccaa ttcctgaaaa gaagtgggtac 240
cttacacctt ctgttatttc actgatgggt ggacttctcc ccttcggcag catcttcatt 300
gagatgtact tcgtattcac ttccttctgg aactacaagg tgtactacgt ctatggtttc 360
atgttgctgg tgtttgtcaf cctcataata gtcaccatat gtgtcactat tgtgggtact 420
tatttcttgg tgaatgctga aaact 445

<210> 10233

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-E7

<400> 10233

gattttacca aaacacttct tatagaagcg gactgaaaag ctggggcggt tggcagaccg 60
caccagattt tgggtggccg aagttgaaaa aagcccaaac aaacagggcc acagtatgga 120
aatcattagc tctgtggact gtggtcagga aaaagaacag ccaacaaata aacgtgcaac 180
gtcagaaagt actacagaat caagcacata agcatccagg gagaacatta gaagggacaa 240
gctgaacgag agattcttgg aattgggtgc cattttggag ccagggaaaa ctctaaaat 300
ggacaatata gctatattga gtgatgctat tcgtgtagta cgtgaattgc gtagtgaatc 360
aaataagctc aaggattcaa atgagaatct tcaagagatg attaatgagc tctaagtcta 420
tactatttca t 431

<210> 10234

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-E9

<400> 10234

gcagaccaag atgatccaga tgaacgacat gatcctgact ctgacatgga agtggatgat 60
cacaaggctg tggaagagtc atcgaggagg atcattctag gtataaaaat caagagagaa 120
tttggtgaaa atgcgaccag agtacaggat ggtggcagag tcgcatctgg acatacacga 180
ctggaacca ttgcagaaga catcggttcc ttcaagcaag ctctgcaga tgccaatgca 240
atgggcattg atgaaccaag caatgtcaag aatgaacctg agagctcaac ta 292

<210> 10235

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-F1

<400> 10235

cccacgcgtc cggcgcctcc cggcgggcaa gtccaaggag ggcggcgagg gcaagaaggg 60
gaaaaagaag gcgaataagt ccgtaggagac ctacaagatc tacatcttca aggtgctgaa 120
gcaggtgcac cccgacatcg gcatctcgta caaggccatg tccatcatga actccttcat 180
caacgacatc ttcgagaagc tcgcggccga gtccgccaag ctggcgcgct acaacaagaa 240
gcccaccatc acctcccgcg agatccagac ctcggtgcgc ctcgctctcc ccggcgagct 300
cgacaagcac gccgtctccg atggcactaa ggccggttacg aagttcacct cgtcttagga 360
tccttgtaat ggtcatgtgg gcgtcagcag taggcgtggc tcaatttatg tgatactgct 420
agcgatggat gat 433

<210> 10236

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-F11

<400> 10236

cccacgcgtc cgcaaaacat cagggcacia caactacaac aacttgctgct agcaaacctt 60
gctgcctact ctcagcaaca gcagtttctt ccattcaacc aactagctgc attgaactct 120
gcttcttatt tgcaacaaca acaactacca ttcagccagc tacctgctgc ctacccccag 180

caatttcttc cattcaacca actggcagca ttgaactctc ctgcttattt acagcagcaa 240
 caactactac cattcagcca gctagctggg gtgagccctg ctaccttctt gatacaacca 300
 cagttgttgc cgttctacca gcacgctgcg cctaacgctg gcaccctctt acaactgcaa 360
 caattgctgc cattcaacca acttgctttg acaaaccag cagcgttcta ccaacaac 418

<210> 10237
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-F3

<400> 10237

cggaacgctg ggtggtgctg ctgaagagtc aataagatat ctccaccat ctgcaattgg 60
 tgaagcaagt ggttttgatg cgaaggggtt tgcggttgaa aataaaggca agagtttgga 120
 ggccattgtt gaacaagtac gcgatggcag tactgttcgt gtgtatttag tccctagttt 180
 tcagtttgtc cagatatatg ttgctggagt acaggcccta tcaatgggga gacgcccata 240
 tgcacctact gtaattgctg aaactgatga tactgctaata gacactaacg gtgaagattt 300
 tgagggaaca cctgtccaac tgactacagc acaaagactt gttgcatctg cagcttctgc 360
 tgaaatttca ccatataggt atggaagata agcctatgca ctttacatag gctatagttt 420
 tcaacatata tttgcgta 438

<210> 10238
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-F5

<400> 10238

cgtgtatttc cgcggtttat tctatgacac tgcaaatgat cctgaggggtg gttactatgc 60
 aaggggagcc cgtgcatcag tctgggagaa cttcaagaac aaccgctct tgcacatctc 120
 aacggaccac ccaccacgt actacgagga catgcagcgt gccgtcttct gcctgtgccc 180
 gctgggctgg gcccgtgga gcccctgtct ggtggaggcg gtggtgttcg gctgcatccc 240
 ggtgatcatc gccgacgaca tcgtccttcc cttecgaggac gcgatcccgt gggaggagat 300

cggtgtcttc gtggccgagg acgacgtccc gaggctggac accatcctga cgtccatacc 360
 gatggagggtg atcctccgga agcagaggct gctcgcaat 400

<210> 10239
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-E12

<400> 10239

ggcgccgcag gctgacgagg aggcggagta gagtggccgg actacctcga cacctgcact 60
 gcaaccatgg gtatctcacg tgattcgatg cacaagcgcc gggccaccgg tggaaagcag 120
 aagacgtggc gcaagaagcg aaagtatgag cttggccgcc agcctgctaa caccaaactg 180
 tctagcaata agacagtgag gaggggtccgt gtccgtggag gcaacgtgaa gtggagggct 240
 ctccgattgg atacaggtaa ctactcgtgg ggaagtgagg ctcttaccg caagacccgc 300
 atcctggatg tggctataa tgcataaac aatgagcttg tgaggactca gactcttggt 360
 aagagcgcca ttgtacaagt tgatgtgct ccattcaagc agtggtacct cactcactat 420
 ggagtggaca 430

<210> 10240
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-C7

<400> 10240

ggttgatgga agcattgact agtatactga taggctcact ctgtcacagt aaggggtgtg 60
 ggggtcggat gtccatgtgt atatatggat agatgcgtgt atgtgtgtct tgggctcttg 120
 gctggttctg gaaggaccaa atgggctctc ggctggttct ggaaggacca aatgaaaaaa 180
 aggggtgtgct gttcttgaac aggggacctg cctgaaattg gcttagaaca agcaatcaag 240
 tatctatcaa ctacactgtc attattgtgt gatcttgcaa atttgctctt gcgaaacatg 300
 gcaagttcat catttcttct gcatggagtt ggtgttgccc acccctttgt gctagttcct 360
 tggtaatatg taatatatga tatatcaaga ctcaagagtg tttctgaaaa atatgcaacg 420

acttcag

427

<210> 10241
<211> 98
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-C8

<400> 10241

aaaaaaaaa aaaaaaaaaat aaaaaaaaaa aaaaaaaaaa taagaaaaag aaaagagaat 60
gggtaaataa agatgtaaat agtgtatata tggatata 98

<210> 10242
<211> 421
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-009-Q1-K1-C9

<400> 10242

ncgggtgatgt tacatcattg ggctcactta atgacttctt gagtacttca agatcacatg 60
atcaatatatt acagctccag tcagatTTTT ccaaaacttc caggttccgt gcctcggctg 120
ctagtgaat taagccaagc tctgtctatc aagccagcct aagtccgaga tctggcactt 180
ttaaagatgg ggtaccaagg gcttcatgtg caaggggtgt tgggaggggac aagctgaagc 240
gtcgtgtgga atggttaggc ccgtaaactg ctccgcttga tacgaatcct ttgacaatca 300
accctgattc tgccagtgaag aagtgtgatg cagattgttc aaagaacaat gttagctcag 360
ttccgttgga cctgcctctt tcgtttaccc tggtgccttc tatttactcc cttggcactc 420
g 421

<210> 10243
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-D1

<400> 10243

accacgcgtt cggcaaggcc ttcagaccgg gagggctccc tgtcctgtcc cccgcgcgcg 60
cgcggatgga cggagccacc acgccggcat caggcgccct cgtcaggctc tgcttgctt 120
cgctcctcct ctttctgtac cgggtgtgca gatgtgaggc tgttgagatg gagagaaccc 180
ttgcgatgat caagcccgat ggtttgtcag gtaagtacac agaagcaatc aaagagggtca 240
tcttggtatc tggatttcac atcgtcaaag aaaccgaagt ccagcttgat gctgagaggg 300
catctgtctt ctatgcggag catttccaaa gaagcttctt tgacagccta gtcaagtaca 360
taacaagtgg ttcagttctt gctatggatc tggaaa 396

<210> 10244
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-D10

<400> 10244

acgcgacaac aacctgctgg gcaagttcga gctctcggc atccccctg caccctgtgg 60
tgtgccacag atcaccgtgt gctttgacat cgacgccaac ggcatcctga acgtgtctgc 120
cgaggacaag acaacggggc agaagaacaa gatcacaatc accaacgaca agggccgtct 180
ctccaaggag gagatcgaga agatgggttca ggacgctgag aagtacaagt ctgacgatga 240
ggagcacaag aagaagggtg aggccaagaa ctgcgtggag aactactcct acaacatgcg 300
caacacgatc aaggacgaga agattgcgtc caagctgccg gccgatgaca agaagaagat 360
cgaggacgcc atcgacgcgg ccatcagctg gctggacgcc aaccagctc 409

<210> 10245
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-D12

<400> 10245

cacgcgtccg cccacgcgtc cgctgctctt ccatcgcgcc agtgttttga gaagctggtc 60
ggcgctccta gatcccttcg cctctctcgc gttcgaggct aggtagccgt caccatgagc 120
cgctcggggc agcctccgga tctcaagaag tacatggaca agaagcttca gattaagctg 180

aatgcaaacc gtgttggtat tggcacactt cggggattcg accagttcat gaatctggtg 240
atcgacaaca ctgtggaggt caatggaaat gacaagacag atattggaat ggtgggtatc 300
aagggaaaca gtgttggtcat gatcgaggca cttgaaccag gtgccaaatc gcagtgaatc 360
cttatttttc aactgatatt gtcgcaacct ggaaacc 397

<210> 10246
<211> 418
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-009-Q1-K1-D2
<400> 10246

cccacgcgtc cgcccacgcy ttcgcccacg cgttcgccca cgcgttcggg cgggagcagc 60
agctgtggag acggcggcgg cggcggcagc ggccaacgga aaagcgtgct ggcacgccgt 120
caaggggccc ggttacgcca cgccgctgga ggccatggag aagggcccca gggagaagct 180
cgtctacgtt acctgcgtct acaacggcac tggaattaac aagccggatt accttgcgac 240
ggtggatttg gatcccagct ctactacata ctcccaggtg atccacaggc tcccggttac 300
ccacatcggc gacgagctgc atcactctgg ctggaactcc tgcagctcct gccacggtga 360
cccatctgcc aagcgccgtt tgctgatact gccttccttg ctgtcaggcc ttgtgtat 418

<210> 10247
<211> 437
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-009-Q1-K1-D5
<400> 10247

cggacgcgtg ggcgcttgcy aggtggtatg cagatctttg tgaagacctt gactggcaag 60
accataaacc tggaggttga gagctccgac accatcgaca acgtgaaggc aaagatccag 120
gacaaagagg gcatcctcca gctgcttgcc agcgaagatc agacgctgct ggtctggggg 180
gatgcccctt ttgtcctgga tctttgctgg caagcagctg gaggatggcc gcaccctagc 240
agactacaac atccagaagg agagcactct ccacctggtg ctccgcctcc gtggtggtca 300
gtaagccatg gttcatttaa gctgctgctg tacctgggta tctgcgtcgt ctggtgcctt 360

ctggtgtacc tctatatgga tgcgctcgtc taataaacat ctgtggtttg tgtgtcatga 420
atcgtggttg ttgcttc 437

<210> 10248
<211> 444
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-009-Q1-K1-D6

<400> 10248

ggcacatctt ccatcattac aagattatca gaatatgcat actcatggaa tataccttca 60
gtcctttgcc ttttccaaca agttgggtta acacttgaga tatcatcatt taattgggaa 120

gggccatcgt ctaaccactt ataactgtca ttttcaggat aatgcatttg cttataccct 180
aacttgtaat caataccggc aacattgtca tccaggcggc atgaattagt gatccttcca 240
gagaaacata ctatgcaaaa caaatgtcat attaataatc tagaaacaac tttgagatgg 300
gttttatcta ttgatgagga acctgttaag aaatgtttga ttcgcctgta gctgcaagga 360
atgctaactt tnttttggtt ggtctctgcg gaggatgcc a ttgtcagttg taaatattgg 420
cagcatatta ggaaacatat tatc 444

<210> 10249
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-D7

<400> 10249

acatgccatt tactcgtggt gagaaacgtt cagttgaggt tgtgaaggtc acagatgaga 60
tgaattcatc tgctgcctat ggcaagctcc gccttgagcg gatgaacaag aaacatcttg 120
gtgcccgcga gaagaaggca gctgatgcag ataaggaaga taagaagtga agcggctgaa 180
gatagtaccc tgatacggtc tattcagtc ttagtgaatg ctactactta aagtgccttg 240
tctatgcata ctttgccgta atggagatag atccctgaca tacattcagc tgcctactg 300
tttgatgcc a tggactagta agctaactca aatttttaat gtgttatggg atttttgcgt 360
atgt 364

<210> 10250
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-D8

<400> 10250

cccacgcgtc cgcccacgcg tccgcgtcaa gacacttggt gaggtgttg cagacagttg 60
cccagaggcg ttcattccata tcattcagcaa cccggtgaat tccacggtgc caattgcagc 120
tgaggttctg aagcagaagg gtgtctacaa tccaagaag cttttcgggg ttaccaccct 180
ggatgttggtc agggccaaca catttggtggc gcagaagaag aaccttaagc tcattgatgt 240
tgatgtccca gttgttggtg gccatgctgg aatcacaatt ctgccactgt tatcgaagac 300
caggccatct gtcaccttca cagatgagga aactgaggag ctgacaaaga ggatacagaa 360
tgccgggaca gaggtggtgg atgccaaagc tgggtgctggg tctgctaccc tgtccatggc 420
ctatgccggt g 431

<210> 10251
<211> 201
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-E1

<400> 10251

cggacgcgtg ggtttttttt tttttttttt tttttttttt aatttttttt 60
ttttttttt ttttttttta tttttttatt taattttatt attttttata tttattgttt 120
tgttgagatt acaattattg catctgcaaa acgagtactt caaacatata aggacaaat 180
gattacaaaa gttaaactaga c 201

<210> 10252
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-E11

<400> 10252

cccacgcgtc cgccacgcg tccgcggacg cgtgggcagg aatgggcctg tggacattgc 60
 tggagggttt tttgcttctt gcaaattgct tagcgatatt gaacgaagac cgcttccttg 120
 gtccaagggg atggagcatg tctgaagtct caggaaacgg gcaaaccaag tcgttcaagg 180
 gccagatcgt ggggcttata tacgtacgc agtttctgcg gatgccctta attgctctca 240
 acgttctcat catcgttgtc aaattggtgt ctggctgagc ctgatgaatt ggtatctggt 300
 ccacctttat gtaagagctg agagatccca aatttaattg tactcaagggt tgctgtaaatt 360
 atgctgcttc tgttgattct aatgtggatt tctgttattg ttgtcgtaaa ttaatt 416

<210> 10253
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-C6

<400> 10253

cgcaaccctg tcacgggcaa gaggcagtgg cttggcacct tcgacacggc cggcgcggcc 60
 tccgcagcct acctatccgc ttcccggagc ttgcgcgacg agaagcgccg ccgccgcggg 120
 cagcctgtgc cctcttctc accagttcct tcggcaagcg ccaccccgac ggctcctct 180
 tcgtcgcca cctcgactgc tccgttcgcg caccgcgcgc cgtcgtctgt tcttggaacc 240
 gccaccaagg aggcgcgcgt gaaccgcag tcccggagc tggtcgcgac accaacgctc 300
 gtctgcgcgt ccgatgagtc cgcggagctg ccggaacgacc cggagttcta ccaggacctt 360
 ctccgcggcc tgcagctgcc agacatcagc ccgatggact tccgtgccgg gcttgacgct 420
 ctggacgtct ccgatgcgcc cttcg 445

<210> 10254
 <211> 388
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-009-Q1-K1-B3

<400> 10254

catttgaact catctggagg aagttntgtc catatatccg gatgatgtat gaaagtttct 60

ctgggtgtgat gattcctgtt ctctatgtaa tggaatgcgc aatttcaggg aagattctat 120
 ggtcattgac gttggagaac caaccgactg ggtgaaaatc aatgtgcggc agactaaaga 180
 ttgctttgaa gtctatgcac tagttcctgg acttctacgt gaggaggtgc atgttcaatc 240
 aaatcctgct ggacgtcttg ttattacagg tgatccaaag cagcccgata atccctgtga 300
 gatcactccg ttcaagaagg tgggtcaactt gccatcaaga atcaatcctt accaaacatc 360
 cgctgttgct acgcttcatg gtcagctg 388

<210> 10255
 <211> 399
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-009-Q1-K1-B6

<400> 10255
 ccgtcgtcgt cgtcgttttc gttcccatcg tcacaagtcc agtaccaaac gtgccagcgc 60
 gacgtcgaca ggacaaactg ctgcgccatg gaggtgaggg acagcgtcga acggctggac 120
 caggccgacg tctacagccc tggggctggg aggatcacac gcctcaccag ccacaagttc 180
 cccgtcctca acctcgtaca gatgagcgcg gtgcgggtag acctgtacca ggacgccatc 240
 atgtcgccgt tctggaactt caacgcccac agcgccatgt acggcatcag gggcagtgca 300
 aggggtccagg tcgtcagcga caacgggacc acgggtgttcg acgacgtgct ccgggcgggtg 360
 cagctgctca tcgtacccca gggctacctc gtcgccacc 399

<210> 10256
 <211> 417
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-009-Q1-K1-B7

<400> 10256
 gcgtcggcga cgccatcggc cggatggcgc gcgacgaggg cgtgcgcagc ctctggcgcg 60
 ggtcctcgct caccgtcaac cgcgccatga tcgtcacggc gtcgcagctg gccacgtacg 120
 accaggccaa ggaggccatc ctggcgcgcc gcggcccggg cgcgcagggc ctgcgccacg 180
 acgtggcgcg cagcttcacc gccggcatcg tcgccgcgcg cgcgtccaac cccgtcgacg 240

tcgtcaagac gaggatgatg aacatgaagg tggcgcccgg cgcgcccccg ccctacgccg 300
 gcgccgtoga ctgcgccttc aagaccgtca ggtcggaggg acccatggcg ctgtacaagg 360
 ggttcatccc caccgtgatg cgccaggggc cttcaccgt agtgctcttc atcacgc 417

<210> 10257
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-B8

<400> 10257

gcgcccggcc accggtggaa agcagaagac gtggcgcaag aagcgaaagt atgagcttgg 60
 ccgccagcct gctaacacca aactgtctag caataagaca gtgaggaggg tccgtgtccg 120
 tggaggcaac gtgaagtgga gggctctccg attggataca ggtaactact cgtggggaag 180
 tgaggctctt acccgcaaga cccgcctcct ggatgtggtc tataatgcat caaacaatga 240
 gcttgtgagg actcagactc ttgtgaagag cgccattgta caagttgatg ctgctccatt 300
 caagcagtgg tacctcactc actatggagt ggacatcggg aggaagaaga aggtgcctgt 360
 tgctaagaag gatgcgactg agggacaaga gggtagggct atagct 406

<210> 10258
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-B9

<400> 10258

ctagcaacat agaaagcaca atagtgtacc aacaatggca gccaaaatat ttgtcttctt 60
 tatgtctcctt ggtctttctg caagtgtgc taccgcaacc attttccac aatgtcaca 120
 agctcctata gcttcttttc ttccccata cctctcacca gcggtgtctt cagtatgtga 180
 aaacccaatt cttcaaccct acaggatcca acaggcaatc gcagcaggca tcttaccttt 240
 atcacccttg ttcctccaac aaccgtcagc cctattacag cagttacctt tgggtgcattt 300
 gttggcacia aacatcaagg cacaacaact acaacaactt gtgctaagaa accttgctgc 360
 ctactctcag caacagcagt ttcttccatt caaccaactg gctgcattga actctgctgc 420

<210> 10259
 <211> 294
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-C1

<400> 10259

cccacgcatc caaagggcca tgctgggaga cagattcccg gcgtgcgttc aaaggccgtc 60
 accgtatctg gcgggtccct gatcagcctc atgagagcca tgaacgagta aactggagct 120
 taaaaaactg catggtctct ggagcattct acacgctggc gcaccgcaca cctgtagcgc 180
 tgacacaagc catcgccgac ctgaacatga gatgaaccat gatgagcttt tgccatactt 240
 ctacgcgatac aagtgacttc gaactatata tccgaaattg ctagtgcgaag ggcg 294

<210> 10260
 <211> 208
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-C10

<400> 10260

ggtgatgtta catcattggg ctactgaat gacttcctga gtacttcaag atcacatgat 60
 gaatatttac agctccagtc agatctttcc aaaactttca ggttccgtgc ctgggctgct 120
 agtgcaatta aaccaagctc tgtctatcaa gccaggctaa gtccgagatc tggcacttat 180
 acagatgggg taccaacggc tccatgtg 208

<210> 10261
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-C12

<400> 10261

tccgaatttt ccttgaagat ggacaccaa ttggatgtgc tcagtcatac ccaaagaaca 60
 tgggacttta tggacaaaga gcaggatgcc tgagtatttt gtgtgaggat gagatgcaag 120

cagttgctgt caagagccaa ctgcaacaga tcgcaagacc aatgtacagc aaccacctg 180
 ttcattggtgc actggttgtt tctataatcc tcagtgatcc agaattgaag agtttgtggt 240
 taaaagaagt caagggtatg gctgatcgta tcattggaat gcggaaggca ctttaaggaaa 300
 atcttgaaaa gctaggttca cctttgtcat gggatcatat cactaatcag attggaatgt 360
 tctgctacag tgggatgaca cctgaacaag ttgaccgttt aacaaatgaa taccacattt 420
 acatgacc 428

<210> 10262
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-C4

<400> 10262
 cccacgcgtc cgggccaatg tccgtgagat ttttgacaag gctaggcagt ctgctccgtg 60
 tgtcctcttc ttcgatgagc tcgactccat tgctactcag agaggaagca gtggttggta 120
 cgcggggcgtt gctgctgaca ggggtgtgaa ccagctgctt actgagatgg atggcatgaa 180
 tgccaagaag acgggttttca ttatcggcgc gactaacaga ccagatatca ttgaccctgc 240
 cttgctgagg ccaggacgcc tcgaccagct tatctacatt cctctgcccg atgagcagtc 300
 caggcttcag atcttcaaag cctgcctcag gaagtctcct gtggctaagg acgttgactt 360
 gcatgctctt gccaaagtaca cccagggttt cagcggagca gatatcaccc agatctgcca 420
 gcgtgcgtgc aagtatgcca tca 443

<210> 10263
 <211> 376
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-009-Q1-K1-B10

<400> 10263
 gaagatggtc atcggttctcg tcgtgtgcct ggctctgtca gctgccagcg cctctgcaat 60
 gcagatgccc tgcccctgcg cggggctgca gggcttgtag ggcgctggcg ccggcctgac 120
 gacgatgatg ggcgccggcg ggctgtaccc ctacgcggag tacctgaggg agccgcagtg 180

cagcccgtg gcgggggcgc cctactacgc cgggtgtggg cagccgagcg ccatgttcca 240
gccgcttccg caacagtgt gccagcagca gatgaggatg atggacgtgc agtccgtcgc 300
gcagcagctg cagatgatga tgcagcttga gcgtgccgct gccgncagca gcagcctgta 360
cgagccagct ctgatg 376

<210> 10264
<211> 283
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-008-Q1-K1-H12
<400> 10264

ggccggaagc ggggcgacca gcagcggacg gcagcacgaa aggaaaccaa agccaaacaa 60
cgaaaaaaga gaggaacaaa gcgggacaaa aggaacagga aacccaaccg gaaaaggggc 120
cgcaaagaaa caccaaagcc aggcaaagag aagaagcgac gaaaaaagaa gaagaagaaa 180
caacacaaaag aggccacgga gccaaaacca aaaagggagg aagccagaaa caacaggacc 240
aagaaccaa acaggcaggg caccagaaac ccaaggagga agg 283

<210> 10265
<211> 364
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-008-Q1-K1-H9
<400> 10265

gctgctcatc cggaagctgc ccttccagcg gctggtgcgt gagatcgcg aagacttcaa 60
gaccgacctt cggttccagt cctccgctgt cgccgcgctg caggaggccg ccgaggcgta 120
tctggtgggt ctctttgagg acaccaacct ctgcgccatc cacgccaaga gggtcaccat 180
catgcccaag gacatccagc tcgcgcgccg catcaggggc gagagggcct gattgctgct 240
ctgtcttctt gttttctgtaa tgtctgaact aggctatgga ctctatcgct tcttgttctg 300
caatcgttgt accgatgttc ttggcatatc tatctggctg tttaattaat atttattttg 360
ggct 364

<210> 10266
 <211> 310
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-009-Q1-K1-A1

 <400> 10266

 cacacgccgt cctagtagcc tncctggaca atgatgttaa gttcggcaag gttttccttt 60
 ctcttttttt attctactgc gtggtctatg tgtatattgc caaaggcatg cgtgagccat 120
 gcgcccgggtg ctggggcgca gagaccatct gatggtggaa acaccggaaa taagagcgtg 180
 ccgctgtgtg ttttctttga aggaataaaa atggtgttcg tgttgtgcat tgcttaaaat 240
 aattataaat tattttatttt tatttttttt attaattatt tcattatttt ttattttaatt 300

ttttatcttt 310

<210> 10267
 <211> 398
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-009-Q1-K1-A10

 <400> 10267

 tccggcagac attgctccgg aggtactcta tcgccgggaa tacgacggca agatggcaga 60
 cgtttggtct tgtggagtga ctctttacgt gatgctggtt ggtgcatacc cttttgagga 120
 ccccgatgat cccaagaatt tcagaaaaac gattgggaga atagtgtcaa ttcaatacca 180
 gataccagag tatgtccaca tatcccagga ttgcagacag ctcttgcta ggatcttcgt 240
 cgcaaatacct gcaaagagaa taacaattaa ggagattagg aatcaccctt ggttcctgaa 300
 gaatttgccc agagagctta cagaagctgc gcaagcgaag tactacaaag aggacaacgg 360
 tgccccacc ttctctgatc aaacagtcga agagatca 398

<210> 10268
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-009-Q1-K1-A11

<400> 10268

cgccgtctgc cttctgcgcc tacatttcgg cctctgtccc ttgcaagttc aatctcacct 60
gcaaccatgg gtaaagagaa gtccacatc aacattgtgg ttattggcca cgttgactct 120
ggcaagtcga ccaccacagg acacctgac tacaagcttg gaggcattga caagcgtgtg 180
atcgagaggt ttgagaagga ggctgctgaa atgaacaagc ggtccttcaa gtacgcatgg 240
gtgctcgaca agctcaaggc tgagcgtgag agaggtatca ccattgatat cgctctgtgg 300
aagtttgaga ccaccaagta ctactgcacg gtcattgatg cccctggaca ccgtgacttc 360
atcaagaaca tgatcactgg tacctnccag gctgactgtg ctgtccttat cattgactcc 420
accactgg 428

<210> 10269

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-A12

<400> 10269

cgcagcgtcc ggctatgcga agctcaatca atctactcat agcaagttca ctaatacctg 60
ataagatgct tgaagacaag aacactataa ccgttccgga ccatgtccat gatgactctg 120
accagcgtat cagatcagga cacctgagat acatgctacc acgcatagga catcgtgtga 180
tccataggct tgagaaggag gctgctgcaa tgaacaagcc ggacttgatg tgcacatggg 240
tgcttgacaa gctcaacgct tagactgaaa gaggtctcac cattgacatg tg 292

<210> 10270

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-A2

<400> 10270

cacgtagatg ctggaggagg atgtggaagt tccagtctca tctgcaaatg aagctccaaa 60
cgatactatg aagatggaca cagatgatgt gccaaagtat cctgctgctg gatctgatgt 120
gactatgcag gagcagcctc ctgcagctgg aaatggagca caagataatg aggaaaagtc 180

tgtttcgatg gaaactgatg caaaggttga gccgtcaaaa aagaaagtta agaaaactac 240
 tgttccggtc catgagttgg tctatggggc cttggctgca gctgacctgc agaaggctgt 300
 agagaaagag tatgagatgg ctcttcaaga cagagtaatg gaagaaacat aggagaagaa 360
 gaatgctgtt gaagcttatg tgtatgacat gcgtaacaag ctatatgaca agtacagtga 420
 ttttgtcaca cctgaagaca aggaaagttt gg 452

<210> 10271
 <211> 447
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-009-Q1-K1-A3

<400> 10271
 tctatcagta ccatcaatca tcattcatct tagtagtata ggcaccaaata caagtctgcg 60
 gcatcaatta tctaactcca aaaaccatga agctgggtgt tgtggctctt gctttcattg 120
 ctctagtatc aagtgtttct tgtacacaga caggcggctg cagctgtggt caacaacaaa 180
 gccatgagca tcaacatcat gcacaacaac atcatccaca aaaacaacaa catcaaccac 240
 caccacatca tcaccagcag cagcaacacc aacaacaaca agttcacatg caaccacaaa 300
 aacatcacca acaacaagaa gttcatgttc aacaacaaca acatcaaccg caggaccacc 360
 accaccaaca acaacaacag caccaacaac aacttcaatg tgaaggccaa caacagcatc 420
 accaacaatc acagggccat gtgcaac 447

<210> 10272
 <211> 163
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-009-Q1-K1-A4

<400> 10272
 ctttctgctt cgacctctag cgaatacatc tgggggctag ggctccagtg cgctgtaca 60
 accggacacg aggetaggct gggcatggag ggaatcgtga cgggccgaaa gaagtccttg 120
 ccagagacag ctaacggggc tgctgacatc gggaagcgct cca 163

<210> 10273
 <211> 426
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-009-Q1-K1-A6

<400> 10273

gngaagtcta ccataacttaa tttaacttgc cggatgatctt acccctactg aaggcgaggt 60
 aaggaggagc cagaagctga ggattggacg atactcgag cattttgttg acctactgac 120
 aatggaggaa aatgcagttc aatatttgtt gaggcttcac ccggaccagg agggaatgag 180
 caaagcagag gctgtccgcg ctaagctcgg gaagtttggg ttacctggac acaaccatct 240
 cagccaatc gttaaactat ccggcgggca gaaggccga gttgtgttca cctctatatc 300
 aatgtctcag cctcacatac tcctgctcga cgagccaacg aaccacttgg acatgcaaag 360
 tatcgatgca ttggcagacg cgctggatga gttcacagga ggtgtcgtct tggtcagcca 420
 cgactc 426

<210> 10274
 <211> 398
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-A8

<400> 10274

cccacgcgtc cggcgacatc ccgcccaggg gcctgaagat ggcgggggacc ttcgtgggga 60
 actccacctc catccaggag atgttccgca gggtgagcga gcagttcacc gccatgttca 120
 ggcgcaaggc cttcctgcac tggtaaccg gcgaggggat ggatgagatg gagttcactg 180
 aggccgagag caacatgaac gatctggtcg ccgagtacca gcagtaccag gacgccaccg 240
 ccgacgagga gtacgaggac gaagaggaag aggagaacgt ggcagaatag ccatgacctc 300
 cggtgccctt tttcagggcc accgcattcg acaggttgtg tctctgtgaa tgagtttgtt 360
 tgtttctttt ctctgcttct cgtggcttgc gtcatgga 398

<210> 10275
 <211> 339
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-009-Q1-K1-A9

<400> 10275

ctcccgaccg cgcgcgtcgc cgctcctct cccagcacc cggagctcga ccgaacgccg 60
ctcaccatga tcatcccca gaagaaccgc aatgagatct gcaagtacct cttcaaggag 120
ggcgtgctgt atgccaagaa ggactacaac ctggcgaagc acccgagat cgatgtgccc 180
aacctccagg tgatcaagct catgcagagc tttaagtcca aggagtatgt tagggagacc 240
ttctcctggc agtactacta ctggtatctc accaacgatg gcattgagca cctacgcaac 300
tacctgaacc tncgctctga gatcgtgcct gccacgctc 339

<210> 10276

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-H11

<400> 10276

ccaggatctg agtcagtatc agaggtgggt gggccaaaga agagcatgct ggttgtgtca 60
gagtttattg gctgctcgcc gtcactgagt ggtgctatta ggggtcaatcc atggaatata 120
gaggcaacag cagaggcgat gaatgaggcc atttcaatgc cagaacagga aaaacagttg 180
aggcatgaga aacattaccg ttatgtcagc agccatgatg ttgcttattg gtcaaagagc 240
ttcatcctag acttggaag ggcttgtagg gaccacttta agaggacatg ttggggcata 300
gggttgggtt ttggtttcag ggtggtggcc ttggacgctc atttcagaaa gcttaacatg 360
gattcaattg ttaatgetta tgagatttca gggagcaggg ctatattgct tgattatgat 420
ggaacactg 429

<210> 10277

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-F11

<400> 10277

cggacgcgtg gggacatctt acagcttctg ccatccaaga ttcaggttgg agtcttctct 60
 gctaccatgc cacctgaagc ccttgagatt acccgcaagt tcatggacaa accagtgaga 120
 attcttgtga agagagacga gctgacctt gagggatta agcaggtcta tgtgaatgtg 180
 gacaaggaag actggaagct ggacacactg agtgacctgt atgagaccct ggccattatc 240
 cagagtgtca tctatgtcaa caccgacgc aaggtggact ggctcactga catgatgagg 300
 agcatggacc acaccgtttc tgtcactcat ggtgtcatgg 340

<210> 10278
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-F12

<400> 10278
 caacaagcaa catagaaagt ggaatccagt agcaacaata gagcaacaat ggcgaccaag 60
 atattttccc tccttatgct ccttgctctt tctgcatgtg ttgctaacgc gacaattttc 120
 cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaatgata 180
 gcttcagtat gtgaaaaccc agctcttcaa ccctataggc tccaacaagc aatcgagca 240
 agcaacatac ctttatcacc cttgtttcaa caatcgccag ccctatcttt ggtgcagtca 300
 ttggtacaaa ccatcagggc acagcagctg cagcaactcg tgctacctgt gatcaaccaa 360
 gtagctctgg caaacctttc tccctactct cagcaacaac aatttcttcc attcaaccaa 420
 ctgtctacat tg 432

<210> 10279
 <211> 327
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-F6

<400> 10279
 gccacgcgag cgagcagaaa cacaccaagc gaagcacatg agcaacaacc gaacaacaaa 60
 ggctaccaag agaggaaccc accgagcgca actggcgcaa agtgcgagcg caacaaaggc 120
 ggtcaagagg ccacaatgca cacacgttac aagctccagg atcacacagc acctcccacc 180

agggacttca aggggctgcg aacacccagg agggcaagcc tataggcgac aacaggcaag 240
ggcggcgaga gagggacaac aaccaaaggc ccagtagcaa caacaatccg gggcacatct 300
aacgaaacaa accaggggag cgcaaca 327

<210> 10280
<211> 354
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-008-Q1-K1-G10
<400> 10280

cccacgcgtc cgcccacgcg tccgctcgcc tctctcct agtctccacg acgcaaggga 60
gagtgcgga aagcgacgcg ggcgcgagcga ggagggccaa ggcgaagagg ggaagcaccg 120
caccaggacc cttgttcgcc gccgcgcgct ctgatctccg cgaggttgtc aggattcaat 180
atgtcgacca gcacattcgc tacttccctgc acgctgttgg gcaatgttag aacaacgcat 240
gccttccaga cagcggtgaa gagcccttcg tctctaagct tcttcagcca agttacgaag 300
gttccaagcc tgaatacctt caagaaactg gatgtctccg ccatggctgt atac 354

<210> 10281
<211> 390
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-008-Q1-K1-G11
<400> 10281

gtcactggac atctcctaaa taatcctcag tcgttacttc tgctagtcca tgccatgctt 60
atactggtga tcaagatgcc tatgtctcca ccaccgtcgc tcagccgctt gcctctgtgt 120
tggctcgccg gatctactat ccgacgcgcc actgtttgcg ctgtgcttaa ggtcctactc 180
accggtcttc tcgtcgacag cgccagtcgt gtctcccgcc acaccgacac tttttctcca 240
tcgctcgact ccgtgctcag cgctctcacc atcaccgcgt ctctcctcgc cgggtgttcgc 300
cgggcatacg ctcaacctcg ccaccgtggg acttacctcg ctttcaaacc gtgttcgccg 360
cagcccagcc atcgtctacc tctacgctta 390

<210> 10282
 <211> 290
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-008-Q1-K1-G12

 <400> 10282
 accacgcgtc cgccacgcg tccggccacg gggctcgcaa tcaagcactc cctcggccag 60
 tcccacccgg tcaagctcgc gcctttcagc ccggaccagg aggacgcgtc ggtgctgtgg 120
 acggagagca aggacgtggg caagggcttc cgctgcatcc gcatgggtcaa caacacccgc 180
 ctcaacttcg acgccttcca cggcgacaag gaccacggcg gcgtgcacga cggcaccgtc 240
 gtcttgctct ggtagtggtg caaggctcag taccatatct gtatgacct 290

<210> 10283
 <211> 238
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-008-Q1-K1-G2

 <400> 10283
 caccatcaga ctgctgatcc tgccgggaga atccaggcca atgcctaatt gacctcatct 60
 ccctcaaaat ctagaagaat aaagtcgccg agtatgtgca caagttagct cctcgtcaac 120
 atgtgcgcat ttagaccgac agagtctctg tagtgaattc agctcgtgtt agctcctggc 180
 taacgagctg accatacggc ttagttatg tgaagttggc gcgatttcgt catgtcat 238

<210> 10284
 <211> 312
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-008-Q1-K1-G4

 <400> 10284
 gggaccacat aggttggctt tggagccgga ccaggatgct ttagcagagc tgaaagatgt 60
 cggtttgcag ttggccgtat ccttcagtgg agaaggttca atacttgcta ttggtggtga 120
 agatgggtat ttaagagttt tcaactggcc taccatgggg tctgttctca cagaaatcga 180
 tactaaaaca tcgattaagg atcttactat ctgtttggac gagaagtttc ttgctgagaa 240

taggagcagt ggcccatgta gagtgggtgg ttagcagtca tctgaagttg tagccagtct 300
gccaagagat ac 312

<210> 10285
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-G5

<400> 10285

gacacactag catgcagcct gcgagctacg ggctactggt agcatctaca acgtctgcga 60
tctaactaaa tgtccgcact gaaccgcggt gccttatttg cagcagcaaa tgctactacc 120
acttagccag ctagctacag caagccgtgc ttccttcggg acacaacatc aggtgctgac 180
ggctctaccag cagtatgcgg ctaacctcgc ttccttatta caactacaac aattgggtgcc 240
ctttgtcaaa attgatgtga cagacccagg agccttctac caacagcaca ttattgggtgg 300
tgccctc 307

<210> 10286
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-G6

<400> 10286

ataaacacac caagcgaagc acattatcaa caacctaaaca acaatggcta ccaagatatt 60
atccctcctt gcgcttcttg cgctttttgc gaggcgaaca aatgcgttca ttattccaca 120
atgctcactt gctccaagtt ccattattac acagttcctc ccaccagtta cttcaatggg 180
cttcgaacac ccagctgtgc aagcctatag gctacaacaa gcaattgcgg cgagcgtctt 240
acaacaacca atgtaccagt tgcaacaaca atccttggca catctaaca taaaaccat 300
cgcaacgcaa cagcaacaac aattcctacc agcactgaac cacctagtca tgggtgaacc 360
tgccgactat tgcaacagca gttgcttgca tcaaacc 398

<210> 10287
<211> 248

<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-008-Q1-K1-G7

<400> 10287

caggaacagc tgagaaggag gaacatggtg gggtaagaac gagagtgcaa accgagaagc 60
tgcacntgca cgaccaagca acacatcgca gcatgactca tgaggacacc tgagtaagat 120
gacaaacgag cgtcactcgg atagaaggcg acggaacaca taagacaaac acgggacgga 180
tgcgtatcct aaaaaaccga ttgtacgagc gaggcaggaa atgacagatg cgcagaatat 240
gaggaaca 248

<210> 10288

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-E9

<400> 10288

gtaaaaccac atgacagtga aggcaaacca gggccgcagc aagccgggca agctcaggca 60
tcaagcaacc cagcacaagg gggcggctat cctgcaccac cgccatacta ccatgggtcag 120
tatccaccat actatccacc cccaccacca tacggtggct acatgcctcc accgcgcatg 180
ccctaccacac cgcaatatcc gccttaccag ccgatgctag ctcaaccagc acaggtacag 240
gctagtcat ctcggcaacc accgcatgca ggtggagggc agcagcagcc gcctgatggc 300
cctccagctc agcagcagcc acagcagcca attcagaact gaagtcctgt caagatgttg 360
ggatttggtg ctgctctaac tgctcggcag gagaatgcaa cccccgtggg tcaccagctt 420
tcgtaatttc ttaattt 437

<210> 10289

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-H10

<400> 10289

cccacgcgtc cggttcggca ttggtggaat atgtaactcc tgtgttgatc ctgcaaatgc 60
 tttaatcatt actcagtgtg gtggaatccc attgggtata caatgcttat cgagcccagt 120
 gcggaatact gtgacttatg cgcttggggc tttgtattac ctttgaacc cttcgacaaa 180
 gaaggagatc ctgaaaccag atgtagttag tactataaga gagtatgctt cagctggaac 240
 tgtgaataac aacttttagca atctggctaa tgctttcttg gagaaacatg ttgatccatg 300
 atatgacaat tttacagggg agactaaagc ttacacattt cgtgtacctg tgggtgttttc 360
 atattctgga tatgaactaa agaaactaga gcttagatct catgctttca ttgttttggg 420
 cacgatgct 429

<210> 10290
 <211> 428
 <212> DNA
 <213> Zea .mays

<223> Clone ID: LIB3059-008-Q1-K1-C12

<400> 10290

gtggatctca agaacaatac acccttttga ttttagatcc tggcataga actgcagatc 60
 tagaaaggct cctaagaagc aaaaatggat ggcagcgtct ggtgaagaga ggtgtccaca 120
 cgctcaggaa gccacagtat cagttatggt atgtggatcc tgggaattgct agttcagaag 180
 agatggagca actgaagact attgatagta tgcttgtcag gtttttaggtt cctgaaaaca 240
 ggatgaggat tatatgtggt ttgcacacag ggcacttccc tggttgaaga aacatgaaca 300
 tctaatecat tgtcgaacgg tgcgctgtac gaatgactca tcatggatgg gcctgcagaa 360
 agatctttga cgcttgtcta actgaatctg ttttcatact ggatttactg ttttttttag 420
 gtcctttt 428

<210> 10291
 <211> 306
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-008-Q1-K1-C7

<400> 10291

ggcacaacaa ctacaacaac ttgtgctatg aaaccatgct gcctactctc agcaacagca 60

gtttcttaca ttcaaccaac tggtgcatt gaactctgct gcttattnag ggcaacaact 120
accattcagt cagctagcga gtgcctaccc tcagcaagtt catacattca accaactggc 180
agcattgaac tctgctgctt atttacaact gcaacagcta ccaccattca tccagctagc 240
tgatgtgagc caaagtgcct aaatgacgca acaacagatg ttgacgttct acctgcacgc 300
tgcgcc 306

<210> 10292
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-C9

<400> 10292

gccgcggtcc gtccggattc ccggtcgccc acgcgtcggg accgtgggtg aaactatagc 60
tggattacat ggagaggcgg caatgagacc gtctggcccc gccggaggga gacggagacg 120
gagacgagac ggatggcgca tgcacgggtg tggatggatcg gcgcggcatg tgtgtgtggg 180
ctgtacatat acatctgtac atgattgtgc agtgcagggt tttgtccttt tttgatttgt 240
attatctaaa tgactatttt ttttatggct tgattgtctt tttgttctgt ttttgttggg 300
ttttatatat ttttcttttt tttttatttt cttattcttt attttttttt ctgttttatt 360
tttgtgtata tttttataat tatatttttt gttatttttt ttcttttttt tttttttatt 420
ttttattttt tttttttttt tttttt 446

<210> 10293
<211> 280
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-D11

<400> 10293

atctaatagcc aataagtcac agaacgagga ccgttaaact gatgtgaaga ttgattggcc 60
cgaaaatgcc atttaaaaag ccaaaatgct cagatggaag gcgcagttca tctatgtcga 120
tatggaaaac gtgagtacta gttacgctac aggtatctag gatgtcactg aagcttatgc 180
ggcagctatg cgaagtgcct tcgtcgacaa gcaggactac ctgctaaatc agaagtcttt 240

acaggagaag gtcaagtgca tatacatata gctcaacttc

280

<210> 10294
<211> 178
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-008-Q1-K1-D12

<400> 10294

gcgcgctcca gtgccgaagt catcaccctc accgaagaga ctttctccga caagataaag 60
gagaaggaca cgggtgtggtt tgtgcaattc tgcgtcccct ggtgtaaaca ctgcaagaac 120
cttggaaacac ttatgggagg actctgggaa agtngttatg tgaaagggtg ccggatga 178

<210> 10295
<211> 448
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-008-Q1-K1-D9

<400> 10295

agggaaatgca agcatatcct cagcctacat atcagcaacc tgtatatattcc caacctgcat 60
attcccaccc ccaacctgtg aaagcttcaa acccttttga tcttggggaat gggccagctc 120
caactcaagc tcacatgccc ccatctggac caccaggagt attagcaggc ccagctcccc 180
aaaccttaat tagcaactct agttttggtg ttccttcaca gcagcctcac cagctctatc 240
aatcagccgc acatccaagc catttcataa tgcagcaagt tccgaacagc atgcccattg 300
ccgagcaaca acctaatagc atgcttgtaa cgcaacaagg tttgtgatac ctncagccaa 360
acacctcacc ttcatacggc tccgttgggg gtagtaatcc attcgggtaa aagaagtgtg 420
ggaataacctg ctctttcatc tttagact 448

<210> 10296
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-E10

<400> 10296

acgggccggg ctttgcacga ttgactctga gggcaaggca aggaaggttg taggctgctc 60
ctgtgtcgtc gtcaaggact acggtgaata atctgagggc cttaacataa tgcaggagta 120
tgtcaagtag cactagatgt gtgacatgta ccagtgatac tcttgatttg gacctgggct 180
taacattatg cttcagcatc tggggctcga ataggcgatt agaacatgct actagaatag 240
ccgaaccgga tatgtatgaa caatgtgaac attagaacag cttttgctta tgggtgct 297

<210> 10297

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-E11

<400> 10297

aatggttcag gatttctttg aggatgttgg accactgggt agcttacagc taggtgggtc 60
cgcgatggat gggcttctga aaatattcaa ctcgatgta aacttgctca taatggaaac 120
tggttgttgt aagtccgagg caactggccg aatgtaattg aggagcatca tctaagtact 180
cggggaactc tcaggtaaac gacatcctgg acattggctg ctctgttga gtaagcacca 240
gatacctcac cgagaagttc ccacagctc aagctgctgg gctcgaccta tcaccgtact 300
ttcttgttgt ggcggcacia aaggaagaaa aactgtcacg gccaaagcct attcgctagg 360
ttcatgcaa tgggtgaagcg accgagctgt cttcagattt atttaacctt gtcttccttg 420
cttatgtggt ctata 435

<210> 10298

<211> 217

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-E4

<400> 10298

tcgaccagc gttcgtcccg cgtacgtcag tcagcgaggg agtgggtggt cgaccacaag 60
cttcgggccg tcaggacgct gtggctcagc ggcacgtcg gctccatcgc ctacaactgg 120
tccaggcccg gcatgaagac cagcggcaag atcatccacg ccaggctgca tgctcaggct 180

catacgctgg ctgccttggc tgggtccgcg ctggtgg

217

<210> 10299
<211> 304
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-E6

<400> 10299

cttccagga tgcctgacct gagtagcaaa tgtattagca cgactgagaa gctgcctgcc 60
tgtgataggc gatggcgatg gcaatggtgt gtagacagca gctgggtctc tagtattgac 120
ggcatgtaat cgtgttagaa tgaaggatgc aaggggtgcga tggagtggag gtcaatcggc 180
gtgtgatgcc acgtcactag cttagctgta gatgggttgg tggacttttg aggaacagat 240
aatgagattg ttgcacggga cgcttaaatt ttactagaac gccgtccgat taaaacaata 300
tcca 304

<210> 10300
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-C11

<400> 10300

caacaatttc taccagcact gagccaacta gctgtggtga accctgtcgc ctacttgcaa 60
cagcagttgc ttgcatccaa cccacttgct ctggcaaaca tagttgcata ccaacaacaa 120
caacaattgc aacagtttct accagcgtc agtcaactag ccatggtgaa cctgcccgc 180
tacctacaac agcaacaact gatttcattc agccctctcg ctgtgggttaa tgcacctaca 240
tacctgcaac aacagttgct gcaacagatt gtaccagctc tgactcagct agctgtggca 300
aaccctgctg cctacttgca acagctgctt tcattcaacc aactgactgt gtcgaactct 360
gctgcgtacc tacaacagcg acaacagtta cttaatccac tagcgggtggc taaaccaatg 420
gtcgtgcct ttctacagta gtaacaatt 449

<210> 10301
<211> 425

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-008-Q1-K1-E8

 <400> 10301

 atgatttgat tgttccaaca tcttgccaat agcccgtaaa aatgcatgcc tgcacacttg 60
 gccctcactg agcagccttc caagtttgat ttttacgatc caaaaacacc tttcttcact 120
 gcaccccgat gcttgccttc gacgcaattg gacaagtga agatgaaata tgcatttata 180
 tcagatgggt gcttactgag agaatgcaac atcgagcatt ctgtgattgg agtcggctca 240
 cgtgtcagct ttggatgtga actcaaggac tccgtgatga tgggagcgga cacctatgaa 300
 actgaagaag aagcttcata gctactgtta gctgggaagg tcccagggtg aataggaagg 360
 aacacaaaga taatgaactg tatcattgac atgaatgcta ggattgtgaa gaacgtgggtg 420
 atcac 425

<210> 10302
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-007-Q1-K1-H9

 <400> 10302

 cccacgcgtc cgcttcaaca gtggtataaa taagatatat gtgatgagtc agttcaattc 60
 tacttcgctt aaccgccata ttcacgtac atacctgaa ggcgggatca actttgctga 120
 tggatctgta caggtattag cggctacaca aatgcctgaa gagccagctg gatggttcca 180
 gggtagacga gactctatca gaaaatttat ctgggtactc gaggattatt acagtcacaa 240
 atccattgac aacattgtaa tcttgagtgg cgatcagctt tatcggtatga attacatgga 300
 acttgtgcag aaacatgtcg aggacgatgc tgatatcact atatcatgtg ctctgttga 360
 tgagagccga gcttctaaaa atgggctagt gaagattgat catactggac gtgtacttca 420
 atttctttga aaaa 434

<210> 10303
 <211> 452
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-008-Q1-K1-A10

<400> 10303

gaccaactag caacatagaa agcacaatag tgtaccaaca atggcagcca aaatattttg 60
cttccttatg ctcccttggtc tttctgcaag tggtgctacc gcaaccattt tcccacaatg 120
ctcacaagct cctatagctt cccttcttcc ccatacctc tcaccagcgg tgtcttcaat 180
gtgtgaaaac ccaattgttc aaccctacag gatccaacag gcaatcgcaa caggcatctt 240
accattatca cccttggttc tccaacaacc gtcagcccta ttacagcagt tacctntggt 300
ccattttgtg gcacaaaaca tcagggcaca acaactacaa caacttgtgc tagcaaacct 360
tgctgcatac tctcagcaac atcaggttct tccattcaac caactggctt cattgaactc 420

tgctgcttat ttgcaaccac tattaccatt ta 452

<210> 10304
<211> 212
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-A12

<400> 10304

aaagaagtag atcatgcacc cactagtgat cacttcgtct agtgtcccct gtcgtcgtcg 60
tcgtcgtgta cctcgtacgt gacatgccgt agcacgtacg ctagcagagc agcacctcaa 120
tgtccttggg tttgctttgc tggctctctg ttttcgtctc tcgtgttgct tttaatctgg 180
cacaggtttc taaaaaaaaa atttgattct at 212

<210> 10305
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-A8

<400> 10305

gagaatgcaa catcgagcat tctgtgattg gagtctgctc acgtgtcagc tctggatgtg 60
aactcaagga ctccgtgatg atgggagcgg acacctatga aactgaagaa gaagcttcaa 120

agctactgtt agctgggaag gtcccagttg gaataggaag gaacacatag ataaggaact 180
 gtatcattga catgaatgct aggattgggg agaacgtggt gatcacaac agtatgggca 240
 tccaagaggc tgatcacccg gaagaagggt actacataag gtctggaatc gtggtgatct 300
 tgaagaatgc tccatatacg atgggattgt catatagatc 340

<210> 10306
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-A9

<400> 10306

gttgcaatca tagtgtcatt actatcgatg gaaatactga tattgagttg ttctggaatg 60

ctaaagattt actcagagtc agtcgtgttg acacaaatga gaacaatggt gttcttagtc 120
 gagttgttta ccgggttgaa gcgctaaaaa ggctatcggt ctctgacaag gttactatcg 180
 ttcttctctgc cactgggtcaa actgaagaag ttgaagtcag ctacgatata tgagaggagg 240
 cagagtcacc atcatcatgg ggcctaacca caactgctgt tatgctcaca tgcattcattg 300
 tgacaatagt cactgttgca cttttcatta agttgctgct gagacctatc agacatgcac 360
 tatcagggag catgacagca ttcataccat ctcgagcact aataatttga t 411

<210> 10307
 <211> 452
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-B11

<400> 10307

gccgtgggtga accctgtcac ctacttgcaa cagcagctgc ttgcatccaa cccacttgct 60
 ctggcgaacg tagctgcata ccagcaacaa caacagctgc aacagtttat gccagtgtct 120
 agtcaactag ccatggtgaa ccctgccgtc tacctacaac tactttcatc tagcccgctc 180
 gcggtgggca atgcacctac gtacctaaa caacagttgc tgcaacaaat tgtaccagct 240
 ctgactcagc tagctgtggc aaaccctgct gcctacttac aacagttgct tccattcaac 300
 caactggctg tgtcaaactc tgctgcgtac ctacaacagc gacaacagti acttaatcca 360

ttggcagtgg ctaaccatt ggtcgctacc ttctgcagc agcaacaaca attgctgcc 420
tacaaccagt tctctttgat gaaccctgcc tt 452

<210> 10308
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-B12

<400> 10308

cccacgcgtc cgcccacgcg tccgcggacg cgtgggggtgg tgtgtggagg atgaagtatc 60
atcctagtat tgcagatggt gtattggctg cgtgcatgca caatgggttt gccattgtaa 120
aagtaggttc tggagatgct accgtaatgg aaacatattg caagcatgag tccttagcat 180

acggtgcaga ttggcagaaa agtgaagagg tggagcaaaa tggaaattct tcagttgttg 240
ctacttgtgc gttttatgat cgccttctcc gtgtgtggca accagagaat ctagctgagc 300
tttaaagacc taaagctttt tttgaattga attcaagcat gactaggtct tgaatcttat 360
tccttgaatg 370

<210> 10309
<211> 62
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-B5

<400> 10309

gcggcggcca agcgatcact gctaccgata agaccggaga tggacgcaca gcgaaggaca 60
gg 62

<210> 10310
<211> 303
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-B7

<400> 10310

cccacgcgtc cgtggcaact ataagccacg cactgatctg ccaaagtgtg tggagctgta 60

catgaaaaag gagctggagg tggagaagtt catcacgcac agcgtccctg tcgactagat 120
 caacaaggcg ttcgacctga tggccaaggg ggagggcatc cgctgcatca tccgcatgga 180
 gaactagatt tcgctgtcta gtttgagatg tggcctgggc ttgggggttaa taaatgaggc 240
 aatgctagcc tgtattttcg atggggaggt acatacacgc tggcaatgga ccgggcttgt 300
 gtg 303

<210> 10311
 <211> 205
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-B8

<400> 10311

gaaaaactag aacgagagcg ccaggacaaa gaaaggaaga aaaagagaac aaacatagag 60
 gagaactgag agaataggac gaagacaaga caaaggagca gaaaagccag agaggaaaca 120
 gaaacccaag gggaaggggg acacgacata actgaacgac ggtaaaggag aaaactagca 180
 agcgaggtag ctagacagac ggctc 205

<210> 10312
 <211> 381
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-B9

<400> 10312

caggattcag gataaccttg cgctggtata cctgtcaagc atgacacgga cacagatcag 60
 catcgccgag aagttgaaca ctgctgctca agtgcgttag gtttggcggg gtggcatctg 120
 gtttggacgt ggatggctag atgctatctg ggatgcttgg catcagtgtg attggtgaca 180
 gaattgcata catgaactca tcattatgat tgctcattga gagacctgat ggaaaggggt 240
 agccaacgac gagatcccat aatgtagcca gaatgccagt ggagtgaagg atggcatgat 300
 gtctttgtgt ggattgtttt atgtgttttg gttgaatatt tttttgtttt attatctatt 360
 ttttgagttt ttaatttttt t 381

<210> 10313

<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-C10

<400> 10313

gagacacata gacatggtga caaatgcagt gttactcaga acatgattag tttagctaca 60
cacaaatggc tgtggccaac gatagctgga tacattgatc aacagcaggt gcagcagatt 120
atgccagagc ttactgaagt agcaatggcg taccgtgtcg agtacctaca cctactatca 180
tttagcgcgc tcgaggtggg caatgcacct acgtacgtac aacaacaggt gctgcaacaa 240
attgtaccag ctgtgactca tctagctgtg gcaaaccctg ctgcctactt acaacagttg 300
ctgtcattca accaactggc tgtgtcaaac tctgtgcgt acctacaaca g 351

<210> 10314
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-F9

<400> 10314

cccacgcgta cgcccacgcg tccgcaacta gcaacataca tagtgaagta cactagcaac 60
atcttagcac caatgggagc caagattttt gccctccttg cctccttgc tctttcagca 120
agcgtgcta cctcgacttt tattccacaa tgctcacaac aatacctctc tccggtgaca 180
gccgcgggat ttcaatacc aactatacaa tctacatgg tacaagaggc catccaagca 240
agcatcttac ggtcattagc attaaccctt caacaaccat atgctctatt gcaacagcca 300
tccttagtgc atctgtatct ccaaagaatc gcggcacaac aactacaaca acagttgcta 360
ccaacaatca atcaagtagt tgcagcg 387

<210> 10315
<211> 291
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-G1

<400> 10315

cggacattga agattacaag tgctcatggc tagttgtgca agcccttgag cgtgctgatg 60
 agagccaaaa ggcgatgcta ttgaaaatt atggcaagaa agatccagcc tgtgtggcaa 120
 aagtgaagaa cctctacaaa gaacttgacc tagaggcggg atttcaggat ttcgagactg 180
 agagctacaa gaagctgatt gcagacatgg aagcccagcc aagcattgac gttcataaag 240
 cgctgaaatt ctttttgcac atgaattact agaggcagta ttaggggtact c 291

<210> 10316
 <211> 196
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-007-Q1-K1-G10
 <400> 10316

cagacacgta ggtacacact tgaacttata agtcaacagt gtagcatcac aggtgagcgc 60
 gatattgtta tgctttatgc tccttgcgca tgttgatgt gtctgctaaa tcgtcaatta 120
 tagctcaatg ctcacatgct tctattgctt tccttcttac cctatacttt tcatcaatga 180
 tagcttttagt atgtga 196

<210> 10317
 <211> 56
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-007-Q1-K1-G12
 <400> 10317

aacgactcca ggggtcatat gtagattttg caccactggg tagcttacag gtagga 56

<210> 10318
 <211> 434
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-007-Q1-K1-G2
 <400> 10318

cggacgcgtg ggggcggcgc gggcggacaa ggagcaggcg gaggaggagc tgtgccaagc 60
 cacaatgggt atctcgcggtg actcgatgca caagcgccgg gccaccggtg gaaagcagaa 120

ggcctggagg aagaagcgaa agtatgagct tggtcgccag ccagccaaca ccaagttgtc 180
aagcaataag acagtgagga gggcccggtg tctgtggagg aatgtgaaat ggagggctct 240
tcgccttgat actggtaact actcatgggg aagtgaagct gttacccgca agaccgtat 300
cctcgacgtg gtctacaatg catcaaaca tgagcttgtg aggacacaaa cccttgtgaa 360
gagtgccatt gtgcaagttg atgctggctc attcaagcag tggttcctta ctactatgg 420
agttgacatt ggta 434

<210> 10319
<211> 410
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-007-Q1-K1-G5

<400> 10319
cccacgcgtc cggaacgagc agttctgggt catcggaggc gtttcggcgc atctgttcgc 60
gggtgttcag ggcctgctga aggtgttcgc cggcatcgac acgagcttca ccgtgacgtc 120
taaggccggg gacgacgagg agttctcgga gctgtacacg ttcaagtga ccaccctgct 180
gatacccccg accacgtcc tcctgctgaa cttcatcggg gtgggtggccg ggatctcgaa 240
cgcgatcaac aacgggtacg agtcgtgggg ccctctgttc gggaagctct tcttcgcgtt 300
ctgggtgate gtccacctgt acccgttcct caagggctctg gtggggaggc agaacaggac 360
gccgaccatc gtcatcggct ggtccatcct gctggcctcg atcttctcgc 410

<210> 10320
<211> 294
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-007-Q1-K1-G6

<400> 10320
acgccaccgt cgtcgtcacc aaggctcggag tgtgggggtg agagggaggg tcgacgcacg 60
acatcgcgac gactgagccg tcgaggcgtc tgcaaagact gaccgttcgc gccggcttta 120
acgcagactg catggagtac aactacagt cctacacatg ttgtcaaacc cgcaaagatc 180
aacttatcaa gcagacttac cggcaacagg ctgaagcttc atctaggcaa cgctaaatgc 240

atggcggtag ttcttggtag tgacagctac ttatgaggta ctgatactct tacc 294

<210> 10321
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-G7

<400> 10321

cccacgcgtc cgccacgcg tccgcccacg cgttcgctca aggtctggtg atacgagcga 60
gttgtcttct tcccccccg agaaaagtgc ttccgagaat aaattttttt ccatcggaat 120
gtctgaaact atgttgggtg taccctagtg gttggttgag cattaatggc tcatattttg 180
tcaggtctat gtgttgccgt gaaactttta atcaaacag ttcactctat ataataatat 240
atattatttt tatctattgt ttttttttta tttctttttt tttttgttat ttttcttttt 300
tatttatatt tttttatttt tttt 324

<210> 10322
<211> 97
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-G8

<400> 10322

cccacgcgtt cgctgaggtg gagtcgtctg actaccaccg tcagcgctg gcggaggggc 60
tggcgcgccc atgtgctcgc gctggttcat gctcatt 97

<210> 10323
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-G9

<400> 10323

gccaaactagc tgtggtgaac cctgtcgcct acttgcaaca gcagttgctt gcatccaacc 60
cacttgctct ggcaaacata gttgcatacc aacaacaaca acaattgcaa cagtttctac 120
cagcgctcag tcaactagcc atggtgaacc ctgccgccta cctacaacag caacaactga 180

tttcatctag ccctatcgct gtggttaatg cacctacata cctgcaacaa cagttgctgc 240
 aacagattgt accagctctg actcagctag ctgtggcaaa cctgctgcc tacttgcaac 300
 agctgcttcc attcaaccaa ctgactgtgt cgaactctgc tgcgtaccta caacagcgac 360
 aacagttact taatccacta gcggtggcta acccattggt cgc 403

<210> 10324
 <211> 198
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-H1

<400> 10324

cccacgcgtc cgacttggag gaagctggtc tagatcctgt tgccttagat ctgacatgct 60

ctggcataga ccatactgat gcacacagcc tagctactta tgctgattac ttctcgcctt 120

tgattgatta ccttgacaga cttccagatg ttgatatggt ctttttattt gtcctttttt 180

ttttatgttt tcgtgttt 198

<210> 10325
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-H10

<400> 10325

cgctagctcg ctcgctctcc ttgcaactcc agtgtgctc actgccactg ccagcagatc 60

gagctgctcc gtctcacaaa ccctcttgct ttgctgctgc acctgcaagt ctgcaaccgc 120

gcacacagag atgtcgacga cggtagagccg tgcgtccctc gaccagaagc tcgccctcgc 180

caagcggttc tcccagagagg cgaccctcgc cggagccaag gcggcagcgg tggcgactat 240

cgcctccgcg atccccaccc tggccagcgt gcggatgctg ccatgggcca aggccaacat 300

caaccccacc ggccaggcgc tcatcgtctc cacggtggct gggatggcct acttcatcgc 360

cgccgacaag aagatcctgt cgctggcaag gcgccactcg ttcgagcaag cccctgagca 420

cc 422

<210> 10326

<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-H11

<400> 10326

cggacgcgtg ggaccagcca caagttcccc gtcctcaacc tcgtacagat gagcgcggtg 60
cgggtagacc tgtaccagga cgccatcatg tcgccgttct ggaacttcaa cgcccacagc 120
gccatgtacg gcatcagggg cagtgcgaagg gtccaggctg ccagcgacaa cgggaccacg 180
gtgttcgacg acgtgctccg tgcggggcag ctgctcatcg taccacaggg ctacctcgtc 240
gccaccaagg cgcagggaga aggtttccag tacatgcct tcgagacgaa ccctgacacc 300
atggtcagcc acgttgccgg gaagaactcc gtcctgagcg acttgccggc cgtcgtcatc 360

gccagctcgt atgccatctt catggaggaa gctgcaaagc ttaagaac 408

<210> 10327
<211> 204
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-007-Q1-K1-H2

<400> 10327

gcagcaaggg gcagcccact tgccgagaac atnttcaaag ggatcgacgc ccggtcctga 60
gcgaagccct gggcgtagca tgcacgtcgc gagaagctgc agagccggct gaccagcgag 120
gcgagatcgt ccgctgggag ccggagcacg gctttcacca gctgaatccg cgccgcgtcg 180
tcgtcgtttc gttcccatcg tcac 204

<210> 10328
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-H4

<400> 10328

cggacgcgtg ggcggacgcg tgggttcaga aacacaccaa gcgaagcgca ctagcaacga 60
cctaacaaca atggctacca agatattagc cctccttgcg cttcttgccc tttttgtgag 120

cgcaacaaat gcgttcatta ttccacaatg ctacttgct cctagtgccca ttattccaca 180
gttcctccca ccagttactt caatgggctt cgaacaccta gctgtgcaag ccaacatgca 240
acaacaagcg cttgcggcga gcgtcttaca acaaccaatt gcccaattgc aacaacaatc 300
cttgccacat ctaacaatac aagccatcac aacgcaacag caacaacagt tctaccagc 360
actgagccac ctagccatgg tgaacctgc cgtctacttg caagagcagc tgcttgcac 420
caaccactt gctctggcga acgtagt 447

<210> 10329
<211> 363
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-007-Q1-K1-F8

<400> 10329
ctgccccttc attacagatg gatatgatta gtatctacga cacttcagca ctagagctct 60
atgatttgtt ggatgttgta cccactgtat gtacttagtc ctgaaacagt ggccaatcta 120
tattatactc tgttctttct tttttatttg tcgcggtcta gtttaaaaat gaactagcgg 180
gcgacaaata ttcaagaacg gaggtagtat atgaggtagt atatgactta gacgtaactt 240
tagtgcaccg aatgtagtca acctttgttt gctttggaga atgaggattt gttgttctag 300
tatcagtcctc tttgatgttc ctaatgggct agttggaaga tattttgagg attttgaaag 360
gca 363

<210> 10330
<211> 148
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-007-Q1-K1-H5

<400> 10330
cccacgcgtc cgcagtcacg tctcccagat ctaactgccc cccgactcac gaatcccaaa 60
gcctgcatgg cgacgcaccg ccaactgctc ccaactctcc tctcgtggc cgtcgcctc 120
gccgccgtcc ctgctcgcgc ggctctgg 148

<210> 10331
 <211> 271
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-007-Q1-K1-H6

 <400> 10331

 cccacgcgtc cgggggattt cgatgaatag gaaatgtatg tgaagattcc agctgatctc 60
 ataataagtt ctgagaaggc caagtcaatt gtacaggata ttgcaaaggc taggttggag 120
 aactcccttg tccaggctat tgcgttgctt cggcagaaga agagagatga tgtgctttca 180
 tctctgaatg acatgctcgc atgtgatgct gcggtccttg catcacgacc cttgtcatgg 240
 cccacaccag gagagctaga tgatctatct g 271

<210> 10332
 <211> 397
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-007-Q1-K1-H7

 <400> 10332

 cggacgcgtg ggtgaaattg ctcaagctta tgaaaagaat ggagctgcat gtttgagcat 60
 tttgacagat gagaagtact ttcagggaag ctttgataat cttgaaaagg tgcgcagctc 120
 aggagtgaag tgccctcttc tctgcaagga gtttgcatt gacaagtggc aaatctataa 180
 tgctcgctct aagggtgctg atgcaatttt actaattgct gctgtgctac cagatcttga 240
 catatggaaa tttcttcaga tttgcgaaga gttgggaatg acagctctta ttgaggttca 300
 tgatgtaaga gagattgaac gtgtgctgaa aattaatgga gttaagctta ttggtataat 360
 aaccgaagcc ttgagactat tgttgttgat actttta 397

<210> 10333
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-007-Q1-K1-E12

 <400> 10333

 cttgctcctat acctctcacc agcgggtgtct tcaatgtgtg aaaaccaat tgttcaacgc 60

ctacaggatc caacaggcaa tcgcaacagg cattttacca ttatcacctt tgttcctcca 120
acaaccgtca gccctattac agcagttacc ttgtgtccat ttggtggcac aaaacatcag 180
gtcacaacaa ctacaacaac ttgtgctagc aaaccttgct gcatactctc agcaacatca 240
gtttcttcca ttcaaccaac tggctgcatt gaactctgct gcttatttgc aacaacaatt 300
accattcagc cagctagttg ctgcctaccc acagcaattt cttccattca accaactagc 360
agcattgaac tctgctgctt atttacagca gcatcatctt ctaccattta ttcagggtgc 420
tga 423

<210> 10334
<211> 166
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-E3

<400> 10334

cgggcgctag gcagacgct ctacggtacg catgggtttt agcatgtgag cggatcatgt 60
agaggtatct acgaccatca acatgtgcat tacagggtgct acctgtggtg tatttatatg 120
cacataccat tacgggacaa ccgtatact aacatgcgcc tgtaaa 166

<210> 10335
<211> 273
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-E4

<400> 10335

aacacacgta gcaacagaag atgcacggcg agatgcggaa cgactagctt taatgacaca 60
tcctacggct gatcctgcta agaaacgcga tgaggagaaa gctgccaagg agcaaacgca 120
gtcgtaaagca cggaattatc tgcaatatca ccgacgatgc gtccactaaa gcatgatcag 180
agttagttgt atatcaatag ctaatgcac atatatcttg ttataaacct ggatcctaatt 240
ctgtattgcc atgacatatg cattgacagt att 273

<210> 10336
<211> 388

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-007-Q1-K1-E5

 <400> 10336

 aaaccaatt cttcaaccct ataggatcca acaggcaatc gcagctggca tcttaccttt 60
 atcacccttg ttctccaac aatcatcagc cctattacag cagttacctt tggtagcattt 120
 attggcacia aacatcaggg cacaacaact acaacaactt gtgctagcaa accttgctgc 180
 ctactctcag caacagcagt ttcttccatt caaccaacta gctgcattga actctgctgc 240
 ttatttgcaa caacaactac cattcagcca gctagctgct gcctactccc aacaatttct 300
 tccattcaac caactggcat tattgaactc ttctgcttat ttacagcatc aacaactact 360
 tccattcagc cagctagctg gtgtgagc 388

<210> 10337
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-007-Q1-K1-E7

 <400> 10337

 cccacgcgtc cgccacgcg tccgcggacg cgtgggcaac tagcaacata gaaagcacia 60
 tagtgtacca acaatggtag ccaaatatt ttgcctcctt atgctccttg gtctttctgc 120
 aagtgtgct acgacgacca ttttcccgca atgctcacia gctcctatag cttctcttct 180
 tccccatac ctctcaccag cgttgtcttc agtatgtgaa aaccaattc ttcaacccta 240
 caggatccaa caggcaatca cagcaggcat cttaccttta tcacccttgt tccttcaaca 300
 atcatcagcc ctattacatc aattaccttt ggtgcattta ttggcaciaa acatcaaggc 360
 acaacaacta caacaactcg tgctagcaaa ccttgctgcc tacgctcagc aacagcagtt 420
 acctttggtg caattgttgg caca 444

<210> 10338
 <211> 246
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-007-Q1-K1-E9

<400> 10338

gtaaaaccac atgacagtga aggcaaacca gggccgcagc aagccgggca agctcaggca 60
tcaagcaacc cagcacaagg gggcggtat cctgcaccac cgccatacta ccatggtcag 120
tatccaccat actatccacc ctcaccacca tacggagggt acatgcctac accgtgcatg 180
ctctacctac cgcaatatcc gacttaccag ccgatgctag ctcaaccagc acaggtacag 240
gctagt 246

<210> 10339

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-F1

<400> 10339

atcgagagct acggcgagcg cgagcaccgc agggccaagg tgcacctgag gtgcgcgcac 60
gggcagtcca tctccgcgat cagattcgcg agcttcggga cgcctgtggg cacctgcggc 120
aacttccagc agggaggctg ccaactcgggt agctctcacg ctgtgctaga gaagagatgc 180
attgggctcc agagatgcgt cgtcgccatc ttccccgaca acttcggagg agaccctgc 240
ccgagcgtga cgaagagggt ggcggttag gctgtgtgct tttctgctgt ttaagtttat 300
tctgttttta cgtcttatta ttt 323

<210> 10340

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-F10

<400> 10340

ggtgagaggt atgggggaag aagggaagct ataggagctt gtgagcattg tgggaaaacc 60
caattgttca accctacagg atccaacagg caatcgcaac aggcatttta ccattatcac 120
ccttgttcct ccaacaaccg tcagccctat tacaagagtt acctttgggc catttggtgg 180
cacaaaacat cagggcacia caactacaac aacttgtgct agcaaaccctt gctgcatact 240
ctcagcaaca tcagttttctt ccattcaacc aactggctgc attgaactct gctgcttatt 300

tgacaaca actaccattc agccagctag ctgctgccta cccccagcaa tttcttccat 360
 ttaaccaact agcatcattg aactctgctg cttatttaca gcagcaacaa ctactaccat 420
 tc 422

<210> 10341
 <211> 382
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-007-Q1-K1-F11
 <400> 10341

ctagcaacat agaaagcaca atagtgtacc aacaatggca gccaaaatat tttgcctcct 60
 tatgtctcctt ggtctttctg caagtgetgc taecgcgacc attttcccg c-aatgctcaca 120
 agctcctata gcttcccttc ttcccccgta cctctcacca gcggtgtctt cggtatgtga 180
 aaaccaatt cttcaaccct ataggatcca acaggcaatc gcagctggca tcttaccttt 240
 atcacccttg ttccttcaac aatcatcagc cctattacag cagttacctt tgggtgcattt 300
 attggcacia aacatcaagg cacaacaact acaacaactt gtcctagcaa accttgctgc 360
 ctactcttac aacagcagtt tc 382

<210> 10342
 <211> 383
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-007-Q1-K1-F12
 <400> 10342

ttgccattgc tctcctggcg ctcgctgcga gcgcgcactt cagtacaagc ggcggctgtg 60
 gctgccagac accaccgttt catctaccgc cttcgttcta tatgccgcct ccgttctatc 120
 tgccgcccga gcagcagccg cagccatggc aataccccac tcaaccaccg cagctaagcc 180
 cgtgccagca gttcggatcc tgcggcgta gcagcgtcgg cagccccgtt ccggtgccag 240
 tgcgtctagt tcttgagca ccagtgcagc ccggcgggga ctccctacgg ctgccacaa 300
 tgccaggcgc tgcagcaaca gtgctgccac cagatcaagc aggtggagcc attgcaccgg 360
 ttccaggcca catacggtgt ggt 383

<210> 10343
 <211> 384
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-F4

<400> 10343

cggacgcgtg ggggctaccg cgcgcgtttt acgccagggtg cggaggcctc tctgtctgtt 60
 cgccggcgac gatccaatag ccagcagcag caggaggaca ctatgaagct tgacgtgaat 120
 gcccttcgct acctcgccaa ggacgacttc cgcgtcctca ccgccgtcga gatgggcatg 180
 cgcaaccacg agattgttcc agcagaactt gtctacagga tcgccagact gaagcatgga 240
 ggcacatata aagtgtgtgag gaatcttttg aagaacaagc tagtgcatec tgatgccact 300
 aaatacgatg ggtatagact ctctatctta gtttatgact tttcttgcca ttaatatattt 360
 ggttatatatt ttttgttttt gctt 384

<210> 10344
 <211> 471
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-F5

<400> 10344

cggacgcgtg gggtattatt gaattacatg taattagcaa tctaaaagag gtcaccatga 60
 acgatatgtc agtggaagga ggctactgag tttgtaacat catgacgtac aatagggcta 120
 caattgaatt agcattatga aggtttcttc ttttcgatca tttatctggt gttactgaat 180
 aatttcttta tataatctaaa tttgtttttt cttttttttt tttttcttat tttttatgag 240
 acttttttct tttttgttta tatattattt ttttttttat ttttttttta ttttttttta 300
 tttttattta ttttatattta tttttttatt ttttatattt ttattttttt attatttttt 360
 ttaatatattt ttatttttta tttttttatt tggttatatt tatttggtta tattatttta 420
 tatattttat ttattattag tttatttttt attttatttt attattttta t 471

<210> 10345
 <211> 122

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-F6

<400> 10345

cggacgcggt ggggctaccg ttttcgtttt acgccagggtg ccgaggcctc taggtctggt 60
ttcctgctac gatccattag ccagcatctg caggtggaca ctattatgct tgacgtgaat 120
gc 122

<210> 10346
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-F7

<400> 10346

aaagtggaat ccagtagcaa caatagagca acaatggcga ccaagatatt ttccctcctt 60
atgctccttg ctctttctgc atgtgttgc aacgcgacaa tttccctca atgctcacia 120
gctcctatag ctcccttct tccccatac ctccatcaa tgatagcttc agtatgtgaa 180
aaccagctc ttcaacccta taggctcaa caagcaatcg cagcaagcaa cataccttta 240
tcacccttgt ttcaacaatc gccagcccta tctttggtgc agtcattggt acaaaccatc 300
agggcacagc agctgcagca actcgtgcta cctgtgatca accaagtagc tctggcaaac 360
ctttctccct actctcagca acaacaattt ctccattca accaactgtc tacattgaac 420
cgtgctgctt atttgcagca acaac 445

<210> 10347
<211> 254
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-E11

<400> 10347

aatggttcag gatttctttg aggatgttgg actcactggt tagcttacac ctgggtggtt 60
ccacgataga tgggcttctg aaaatgttca acttgtatgt aaacttgctt ataatggaaa 120
ctggttgcat gtagtcctct gcaactggcc gaatgtgatt gatgtgcac atttaagatc 180

tctgagaact gtcattgtata ctacatcttg gacatctgct gcattgttgt attatgcact 240
atattcccta tcga 254

<210> 10348
<211> 216
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-C11

<400> 10348

atgcattaat tgcattgccac gtattgcttta tatcaaagca catgtagagt tgtcaactgg 60
ttctgctgat gaattctgaac taactcaaaa cattaaccga gtttgtcata ctcttgaatt 120
tcattgctgt tgccttctgc gtagtaagct ttttaattctc gacaggctga tgatgatgat 180
gaccttgatc tttttggtga tgaattctgat gtggac 216

<210> 10349
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-C2

<400> 10349

cggacgcgtg ggcgccggac ctggagctga agatctcgac cgcccgccag agcgagcacc 60
agcagcaggt ccagatgggg ccattgctgc cgccgccgcc gccgccgccg cagaggacgc 120
cctttctggg gaccatcagg gtcacatgac atgaccggca aagacggcgg cggttagtag 180
ggaatatacct gctggtagga gaagagcttt tgcccatctg aagctggaga aggttgcttc 240
aaaagatagg acgggggtggg aaaactggat agaaggaagc ttttggcagc gtgtgcgtgt 300
gtgtgtgttg ctggcacctg gcatttgcag ccgattacga ctattggctt gtgtatcatg 360
tggtttttgt gttatattat attattgtta tttttatggt ggtatccttt att 413

<210> 10350
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-C3

<400> 10350

```

cccacgcgtc cgctcgaata gagtacgttc gacgaggaca accggatgct ggtttccctc 60
tttttgagtc tgagtccttg aaatggcctg gatttgtaga gtttgatgat gtcaatggaa 120
gggttttgac ttactctgct caagacagca cttacaaggt gtttgatttg aaaaactaca 180
cattactgta tttggtgtct gataagaatg ttcaagaaat aaagatcagc cctgggataa 240
tgctattgat ttatgcaaga acaagcagct cggttcctct gaagattctt tccattgatg 300
atggtacagt cttgaagtcc ttcagccacc ttcttcacg taacaagaaa gtagatttta 360
ttgagcagtt caatgaaaag cttctgggtca agcatgaagg agagaacctt caaatccttg 420
atgttaggaa ctttcaattg 440

```

<210> 10351
 <211> 259
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-C4

<400> 10351

```

cccacgcgtc cggcaacata catagtgaag tacactagca acatcttaac accaatggca 60
gccaatatat ttgccctact tgccctaact tgctctttca gcaaacgttg ctactcgcac 120
tattattgca cactgctcac aacaatacct ctttccggtg acagccgcga gatttgaata 180
cctatctata caatcctact tgctacaata ggccatcgta ttaagcatct tacagtcggt 240
agcatagact gtcctatat 259

```

<210> 10352
 <211> 238
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-C5

<400> 10352

```

accacgcgtt cgctcgaata gagtacgttt gacgttggac aaccggatgc tggtttcccg 60
ctttgggagt ctgagtcctt gaaatggcct gtatttgtat agtttgatga tgtcaatgga 120
agggttttga cttactctgc ttaagacagc acttacaagg tgtttgattt gtaaaactac 180

```

tcattactgt atttggttgt ctgataagaa tgtttaataa atatatatca gccttggg 238

<210> 10353
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-C6

<400> 10353

ccgtggagtt ctccaccctc taccacggtg ttcccgggca cctaccaag cctgacgacg 60
aagcctccga gtccattctc ttccgggtga agatggtctg ccggatccac gggtcaggcg 120
acgtggttct cgactacgag gtaaacccca ggagcgacct cctccccctt ccccggttgg 180
gcgtcgtgtt cagcgccggg aggtccctga gccacgtcac gtggtacggg cgcggggeet 240
tcgagtgtta cccggaccgc atggcggtg cgacgtcgg cgtgtacgag agcagcgtgg 300
aagagctgca cgtgc 315

<210> 10354
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-C7

<400> 10354

gaatgaaggg attgtgccag ggttgatgac ctacggagca gtggtggatg ggctggtgaa 60
gtgtgggaga gtggaggatg catggaaggt ggctcaggaa atgggggggc agggactagc 120
accagtgag tttgtgttct ccgctgtgat caccgggttt tgcaagtcag gagaggttga 180
cagggcattg atggtgtggg agacaatggt ggcagctagg gtaaagccga atgttgtttt 240
gtattcagta ctgattgatg gttttgcacg gtctgggagg atgacagaat ctgataagtt 300
atttgaagaa atggcttatg cgaaatgtat cttagatatt tggacattcg ttttaatgtg 360
tctgttattt ttttactttt ttt 383

<210> 10355
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-C8

<400> 10355

cagacccgtg ggcacaagtc atatgcacta aatctcattt gagcgtgcaa gtccttcgc 60
ctcgaaccct ctgcgcgttg gcttgctttc actctccagg gcccactcc caccttgccg 120
ccgcattcat ggcgatcaca gtcceaactt tttacattct ctgttagcgc cttgtcggcc 180
tgtacttttt tattctttac gttttttttt ttttatttgt tatatttatt tttttttata 240
tttttatttt tctattttta tttttgtttt ttttaaattt aatttttatt atttttattt 300
attttttctc tttttttttt tttttttttt ttctttattt tttttttctt tattttattt 360
tttttatttt tcatttttta ttttggtatt tattatattt attttttatt ttcttttttt 420
ttttcttatt ttttatttta 440

<210> 10356

<211> 144

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-C9

<400> 10356

aaaaaaaa aaacaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaca aacaaacagg 60
gacatttttt ccaaataaca caagcgtacg cacacatata tgcaaataaa tagcccttct 120
atcacaacac aaaaaactaa caaa 144

<210> 10357

<211> 154

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-D11

<400> 10357

agcatcctac gaattcaagg atacagacag catgcagcac ccatgtccaa ggtcttcacc 60
cttgactcgg tcaccaagca caagtgaag caggatagct ggctcatcat cggcagcaag 120
gagtatgatg tgacgcagac atgggtatac cact 154

<210> 10358
<211> 302
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-D12

<400> 10358

cggacgcgtg ggctcgccat acgcatggac aacctgtacc tcgtgggctt caggaccccc 60
ggcgggggtgt ggtgggagtt cggcaaggac ggcgacaccc acctcctcgg cgacaacccc 120
aggtggctcg gcttcggcgg caggtaccag gacctcatcg gcaacaaggg tctggagacc 180
gtcaccatgg gccgcgccga aatgaccagg gccgtcaacg acctggcgaa gaagaagaag 240
atggcgacac tggaggagga ggaggtgcag atgcatatgc agatgctcta tgcctctgat 300

ct

302

<210> 10359
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-D3

<400> 10359

cccacacaga aaaccctagc cgccgccacc gaagcggcct cccaggtaag caggagcgtc 60
caccgcccg ccgatcatgaa gcgcaatccc cgcgtcacga gctcccgccg gaagtgccgc 120
aaggcgcaact ttacggcccc gtctcctcgc cgccgcgttc tcatgtccgc cgggctgtcg 180
acggagctcc gccacaagta caacgtgcgc tccatcccga tccgcaagga cgacgaggtg 240
caggtcgtgc gcggcaccta caagggccgc gaggggaagg tgggtgcaggt ctaccgccgc 300
cgctgggtca tccacgtcga gcggatcacc cgctagaagg tgtacggctc caccgtgaac 360
gtgtgcattc tcccttt 377

<210> 10360
<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-D4

<400> 10360

ggcaaacggt tggtcacatt tttaggcctg ctcatattat gcccttgctt gagattgttc 60
 ggacggagaa gacatcacca caagctatcc ttgatctcat caccattggg aagataataa 120
 agaaagttcc tatttggtgc ggcaactgct caggatttgc agtcaaccgt tcattttttt 180
 cttacacaca gtgttcttat tttttagtta ggtcttgtaa ttgattgttt ttatatattg 240
 tttttttatt atcattcttt ttgattgtct tttgattact ttgaaattat tttttttttt 300
 ttttttatta gttttgtatt ttttattttt tatattttat attgttatta ttattttgtt 360
 taatatatta tgtttttatt tatttttatt tctttttttt attattgttt atttattgta 420
 tttgtttgta ttttaatgtt attttatatt ttttttttat att 463

<210> 10361

<211> 206

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-D5

<400> 10361

ggcgaggagag agccaggaag aggagggctg tcgatttcgt ccggctggtg catcaacggg 60
 aactagggcc gctgctacga cttctggctg gagttcagcg agtgcagag ccgctgtcgt 120
 cagcccttcg actgcggcct tcttcgcgag gactaccttg agtgcccca ccactcctag 180
 gagttccagc gctggtacag gatcta 206

<210> 10362

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-D8

<400> 10362

cccacgcgtc cgggtgcagc agcccacccc gaccagcgac cactgccatg tcgaggcgcg 60
 gcgactgggt ctacgagaac aacggcgggg agacctgcgt ggccatcgcc ggcgccgatt 120
 actgtgtcgt cgcggcggac accgcctct ctgtcggata cagcatcctc acgcgcgacc 180
 actctaagat ctgcgacctg gctgacaaat gtgtactagc atcttctggc tttcagggtg 240
 atattaaagc tctgcacaag aacctagctg ccagagaatt gctataccaa caccagcata 300

acaaatggat gagctgccct gccatggcac aacttctctc caataccctg tactacaagc 360
gctttctttc caatattacg ccttttaatg tgctcggagg gctttgtcag ct 412

<210> 10363
<211> 398
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-007-Q1-K1-D9

<400> 10363

ccgacaacta catgttgctg ttgttctgca tcggcttcac caagaggcgc ccaaaccaag 60
tcaagagaac ctgctatgct caggcatccc agatccgtca gatccgccgt aagatgggtg 120

agattatgat caaccaggct tctacatgtg acctgaaaga acttgtttcg aagttcattc 180
cagaagttat tggtaaggag attgagaagt ctacctncag catcttccca cttcaaaacg 240
tcttcatccg caaggtgaag atactcaagg cccccaagtt cgatcttggg aaactcatgg 300
aggttcatgg cgactacaaa gaggatgttg gtgtgaagct tgagaggcct gtcgagggag 360
atgaggctgg gcaggaagtt gctgctgccg agtagttt 398

<210> 10364
<211> 238
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-E1

<400> 10364

gtcagtgtg tggacaaggg ttcaggggaag aagcaggata tcacaattac tgggtgctagc 60
actctgccaa aggacgaggt ggagaggatg gttggcgaag ctgataagtt tgcaaaggag 120
gacaaggaga agcgagacgc cattgacacc aagaaccaag ccgagtcggt catctaccag 180
accgagaagc aactgaagga actagggggac aagggtcccag gtgacgtcaa ggggaaag 238

<210> 10365
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-A4

<400> 10365

cccacgcgtc cggcaacata gaaagtggaa tccagtagca acaacagagc aacaatggcg 60
accaagatat ttccctcct tatgctcctt gctctttctg catgtgttgc taacgcgaca 120
atttccctc aatgctcaca agctcctata gcttcccttc ttccccata ccttccatca 180
atgatagctt cagtatgtga aaaccagct cttcagccct ataggctcca acaagcaatc 240
gcagcaagca acataccttt atcacccttg ttgattcaac aatcgccagc cctatctttg 300
gtgcagtcac tggtacaaac ca 322

<210> 10366

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-A5

<400> 10366

tcgaggcacg cgtccggcga cgcgtgccgg ctaaccctgc tgcttacttg taacagctgc 60
ttccatttaa ccaacgtgac tgtgtcgaac tcttgctgcy tacctacaac tgcgacgaca 120
ggtacttaat gcactagcag ggcctaacct attggctcact ggctttctac agcagcaaca 180
attgctatcc atacagtcag ttctctttga tgaaccctgc cttgtcgtgg cagcaaccca 240
atcgtggagg tgccattttt tagatttcct atttatatgt taatcgataa tgggtgccctt 300
ataccgg 307

<210> 10367

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-A6

<400> 10367

cccacgcgtc cgcccacgcg tccgcccacg cgcccgccca cgcgtccgct ggagctgatc 60
ctttctactg gatgcgtgtt atcctcgcat caaacctggg cactgtgatg gagttgggta 120
ttactccaat tgtgacctct ggtatggtaa tgcaacttct tgtcggatcg aagatcattg 180

aagttgacaa cagtgtgaga gaggatcgtg ctctgctgaa tgggtgcacat aagttgcttg 240
 gtatcttgat cgctattggg gaagctgttg tattttttct gactttaatt tattgatttt 300
 tatgtttaa at tttttatcta atgttttttt ctttttatta ttttttttat tttttttcat 360
 ttttttattt tgggtttttat tttttttctt attatttttt ttttgttttt tttttatttt 420
 ttttttata 429

<210> 10368
 <211> 163
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-007-Q1-K1-A7
 <400> 10368

cggacgcgtg ggcggacgcg ttgacggacg cgtgggcgga cacgtgaagt tcgtgagggt 60
 tttcgaacta atgtgtttat ttacaacaga tacaaaagtt acttaatcta ctattaatgt 120
 tttaatcatt tttcattttt tttctacatc attaataatt gct 163

<210> 10369
 <211> 417
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-007-Q1-K1-A8
 <400> 10369

attcaaccat ataggcttca acaagcaatc gcagcaagca acataccttt atcgcccttg 60
 ttgtttcaac aatcgccagc cctatctttg gtgcagtcac tgggtacaaac catcagggca 120
 caacagctgc agcaactcgt gctacctctg atcaaccaag tagctctggc aaacctttct 180
 ccctactctc agcaacaaca atttctttca ttcaaccaac tgtctacact gaaccctgct 240
 gcttattttg agcaacaact attaccattt agccagctag ctactgccta ctcttagcat 300
 caacaacttt ttccatttaa ccaattgtcc gtactgaacc ccgctgctta tttgcagcag 360
 caaattctac taccatttaa ccagcttgct gcagcaaacc gtgctttctt tttgaca 417

<210> 10370
 <211> 411
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-A9

<400> 10370

```

cccacgcgtc cgcggaacgcg tgggcaggag acctccatgc tcaccttcga gggccagaag   60
ttccagggcc cctccgccat tgccggcaag ctcggatctc tccctttcca ggccgtcgag  120
catcagatcg tcaccgtaga ctgccagcca tcgggtcccc agggaggcat gctcgtcttc  180
gtctccggtt ccatacgcac cgccccgag gagcaccca tcaagttctc ccaggcattc  240
catttgctgc cggccgctgg gtccttcttc gtgcagaatg acatgttccg cctgaactat  300
ggctaaagac acccgatact cttgtgatga aggaattgat taagggtttc atgttgaaac  360
tatgaatact taatgttgcc gctactctgg tctcttttgt atcttccttg t          411

```

<210> 10371

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-B1

<400> 10371

```

atcgggatat caaaggggct aatcttctaa taactggtgg taagttgta aaactcgcag   60
attttggcct tgcaaggctg ttactagag acggatcttt aacaaatcat gtcactactt  120
tatggtaccg accttcttag ttgctttttg gtgccacaag ttatgctgaa cctgttgata  180
ttttggttgt tatttgcata ttttcagtat ttttactttt gattactttt tattcctttt  240
ttttttgttt ttgtgctatt tttttttttt ttatattctt atatttattt tatatctttg  300
tttttttttt tatatatttt gttttgtttt tttttatttt attaattatt tttcttttgt  360
tttttttttt tattttattt tttctttttg ttattttttt ataatttttt tttattattt  420
ttaattttt                                     429

```

<210> 10372

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-B10

<400> 10372

gaaagaggca agatgaaggc tctgcctgat aacaaggatg gattcatcag tcacatgtta 60
gtaacgggcg actgggtcat catagtgtcg aagaactcta agtgatctgg taattagtca 120
tcttgcaaca tttattgcct ttctttgggt tcacggaatt ctatcctttg ttgaaaaaaa 180
ctgttattta tgtatgggtt gactgatatg ttgggttattt gtaattgatt ttattgatta 240
tggtattggc tttgtattct attttttatg agtttggttt gttaatagta ttttttattt 300
tattttattt ttgtattgtt ttatttttat ttttatttta tgattttctc ttttatttta 360
ttttttattt ttttttatat ttttttttat tttatatttt atttttgttt attattttta 420
ttttttattt tttttt 436

<210> 10373

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-B11

<400> 10373

cgtgccagct gcaggaacc tgcggcggtg gcagcaccce gatcctgggc cagtgcgtcg 60
agtttctgag gcatcagtcg agcccgacgg cgacgccecta ctgctcgctt cagtgccagt 120
cgttgcggca gcagtgttgc cagcagctca ggcaggtgga gccgcagcac cggtaccagg 180
cgatcttcgg cttggctctc cagtccatcc tgcagcagca gccgcaaagc ggccaggtcg 240
cggggctgtt ggcgggcgag atagcgcagc aactgacggc gatgtgcggc ctgcagcagc 300
cgactccatg cccctacgct gctgcggcg gtgtccccc ctgaagaaac tatgtgctgt 360
agtatagccg ctggctagct agctagttga gtcatttagc ggcgatgatt g 411

<210> 10374

<211> 277

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-B12

<400> 10374

ctcaagttca tcgacacatc gtccaaattt gggcacggtc gttccagac taccgatgag 60

aagcagaggt tctttggcaa gctcaaggcg taagggtgctg cgggtgcagcg aagtcccatt 120
tctcaaaatc atcaaactgt gatacttttg tttgtaacct tgctgtacca agttttgtag 180
ccatggtccg gtcgtctatg gattgttcca tgcttcagaa ctgcactgtc tatgttttgt 240
gctatttttg ttgtttaatg ccccaatcat tgcatat 277

<210> 10375
<211> 229
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-007-Q1-K1-B2
<400> 10375

aatttgggtga tgagaataat acgtggtggt ctgattatgt ggggttattaa aaaaaaaaga 60
aaaaaaaaa aaaaaaaaaa aaaaaataaa aaaaaaaaaa aaaaaataa aaaagaaata 120
aatatacata taaaaaaatc taaaatttaa aaatttagat attattaata tatataaatt 180
atataaagat ataaattata ttatttatta ctatttaa atattatat 229

<210> 10376
<211> 176
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-007-Q1-K1-B3
<400> 10376

gttggttat cctccacata cgggttcggt tcgggttcgt gaggttctac ggggttcggg 60
ttcgtgggtg agcggatcga gatagcgaca gtaggatgtt gagtaccgct gattagtcgg 120
cagtctctac agagtcacaa acgactactt acttcataat tacttgagta cctaca 176

<210> 10377
<211> 350
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-007-Q1-K1-B4
<400> 10377

cccacgcgtc cggttgacct caaggcagac aagaaaaaga tcaaggctgc ggtcaagaag 60

atgtatgaca ttcaagcaaa gaaggtcaac accctgatca ggctgatgg gaagaagaag 120
gcttatgtga aactgacacc cgactacgat gcccttgatg tggccaacaa aattggcatc 180
atctaagtta ataggcaact ggattcgaca tctgtgtcct actagtcttg agcataccaa 240
cagatTTTTTc tatgttacta gtaattttgt ttgtcatatt tggTTTTTTt gcaactaagt 300
cttgttcgca gttgcagact acatatgcct gtattgagat cctggttgcc 350

<210> 10378

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-B6

<400> 10378

cccacgcgtc cggcaaaacc cttcagaaac ccatcggaga agaggcggag ggcgatcgga 60
gagcgggatc atggcggggc cagttgcggc ggtgacggag gcgtgggaca agctcaccgt 120
gttcctgtac tcccagctct acgacgagag gaactgggcc aaaaacaaga agttggcgaa 180
ggctcttggg gtgttcgctg gatccatcct gttcatgcgc acctgtggtg atatggtggc 240
catctaggga gccttcaaaa gttgcctacc gtgaactaga gacacccccct tttttgttgg 300
cattggatgt gttcttactt cggtcaggga cagttgaagc gtatctagac tctagagact 360
gtttgtcttg ctagaattt 379

<210> 10379

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-B7

<400> 10379

caacaagcaa catagaaagt ggaatccagt agcaacaata gagcaacaat ggcgaccgaag 60
atattttccc tccttatgct ccttgctctt tctgcatgtg ttgctaacgc gacaattttc 120
cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaatgata 180
gcttcagtat gtgaaaaccc agctcttcaa ccctataggc tccaacaagc aatcgagca 240
agcaacatac ctttatcacc cttgtttcaa caatcgccag ccctatcttt ggtgcagtca 300

ttggtacaaa ccatcagggc acagcagctg cagcaactcg tgctacctgt gatcaaccaa 360
 gtagctctgg caaacctttc ttcctactct tagcaacaac aatttcttcc attcaaccaa 420
 ctgtctacat tgaaccgtgc 440

<210> 10380
 <211> 336
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-A3

<400> 10380

cccacgcgtc cgggcaaacc ctgctgccta cttgcaacag ctgcttccat tcaaccaact 60
 gactgtgtcg aactctgctg cgtacctaca acagcgacaa cagttactta atccactagc 120
 agtgcctaac ccattgggtca ctgccttccct acagcagcaa caattgctac catacagcca 180
 gttctctttg atgaaccctg ccttgctgtg gcagcaaccc atcggttgag gtgccatctt 240
 ttagattaca tatgagatgt aatcgataat ggtgcctca taccggcatg tgtttcctag 300
 aaataatcaa tatattgatt gacatttata tcgaat 336

<210> 10381
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-B9

<400> 10381

cggacgcgtg ggtttttttg tttttttgt tttgttaacc acaggctgat gcatacccg 60
 gctaaatttg caaacgtgga gaattacatg ctgatagtgc agcgtatata gactacgggc 120
 aaactataat atcaacctct tacagctatc ccaaagagta ggttcattca agctagctac 180
 catccgcgga ggtgggttaac cagaacgtga taagcaacac ggacatccaa catcaacttt 240
 catgtcagca aattgaacgc acgatgtgtc aaccatcaca ttttacacgg taactcagcg 300
 ccgcatcatg tcatccaaac atgtcaaagc cttccccgtg ttggagatgg gagaagcttc 360
 gggagctttt caccttcccc gggaaatgat cgattcttgg atttcgcatg atgtttccgt 420
 ataaaggcat ttgcccagga attttatac 449

<210> 10382
<211> 169
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-C1

<400> 10382

cgtcgacagc acataaagtt tatccttagc aacaattagc acatggcgac caggatattt 60
cctcttatct cttgtcttct gcatgtgtgc taacgctaca attttcttaa gctcacaagc 120
tctaagcttc ttttttccca tacctttcat caatgatagc ttcagtatg 169

<210> 10383
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-G5

<400> 10383

cccacgcgtc cgcgcaaatt gtcceaagaa atccatcgag aggccgtcga caggggaatt 60
aatggctgct tcaagtgcgg cgagcctggc cacatggcca gggactgctc cagcggcggc 120
ggcggctacg gcggtggcgg cggcggtggt ggtggcggct gctacaactg cggccaggcc 180
ggccacatgg ccagggactg cccaagcggg ggcgggcggg gcgaggaggag gttcggcggc 240
ggcgggggtg gaggcgaccg ctctgctac aactgcggcg aggccggcca catcgtccgc 300
gactgtacca cgtgaggtgt gtccgcgttc gtacagccag ccagatcgga tcggatcggt 360
tcaccacctg ctggtctgat gtggccatcc cgcttctaga tcttgcttta 410

<210> 10384
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-G8

<400> 10384

gtcttcttcg acatgaccgt cggcggcgcc ccggcgggcc ggatcgtgat ggagctgtac 60
gccaacgagg tgcccaagac cgcggagaac ttccgcgcgc tgtgcacggg cgagaagggc 120

gtgggcaagt ccggaagcc gctccactac aagggtcca ccttcaccg cgtcatcccc 180
gagttcatgt gccagggcgg cgacttcacc cgcggaacg gcaccggcgg cgagtccatc 240
tacggcgaga agttccccg cgagaagggt cgtgccccag gacaacggcc ccggtgtgct 300
cttcattggc caaggccggc ccaaccacca acggttccaa gtcttcatct gcaccggcgc 360
gacccttgg ctcgacggca agcacgttgt ctccggccaa gtcgtcgagg gcatggacgt 420
cgtcaaagcc atcgag 436

<210> 10385
<211> 423
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-006-Q1-K1-G9

<400> 10385
ggtgggttgg cttctcctcc ccctccggtt cgggttcggg ttcgtgaggt tctccgggggt 60
tcggtttcgt gggtagcggt atcgagatgg cggcgtcgga tgttgagtac cgctgcttcg 120
tcggcggcct cgcctgggcc acggacgacc actccctcca caacgccttc agcacctacg 180
gcgaggtcct cgagtccaag atcctcctcg atcgggagac gcagaggtcc cgcggttcg 240
gcttcgtcac cttctccacg gaggaggcga tgcggaacgc catcgagggc atgaacggca 300
aggagctgga cggccgcaac atcacgtca acgaggccca gtcccgcggc ggccgtggag 360
gcggcggcgg tgggtacggt ggtggccgtg gaagccgcgg ctacggcggg ggccggcgcc 420
gtg 423

<210> 10386
<211> 413
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-006-Q1-K1-H1

<400> 10386
cccaattctt caaccctaca ggatccatca ggcaatcgca gcaggcatct tacctttatc 60
acccttggtc ctccaacaac cgtcagccct attacagcag ttacctttgg tgcatttggt 120
ggcacaaaac atcaaggcac aacaactaca acaacttggt ctaggaaacc ttgctgccta 180

ctctcagcaa cagcagtttc ttccattcaa ccaactggct gcattgaact ctgctgctta 240
 tttgcaacaa caactaccat tcagtcagct agctgctgcc tacccccagc aatttcttcc 300
 attcaaccaa ctggcagcat tgaactctgc tgcttattta caacagcaac aactaccacc 360
 attcagccag ctagctgatg tgagccctaa tgcctttctt gacacagcaa cag 413

<210> 10387

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-H10

<400> 10387

aagaaggcga acttactttc tgctgatgat gttgagccag cacttatccc atccaagacc 60
 attcctgacc ctgatgacaa gaagccggaa gactgggatg agagagctaa aattcctgat 120
 ccagatgcag taaagcctga tgactgggat gaggatgccc cgatggaaat tgcggatgag 180
 gaagccacca agcctgaggg atggttgat gatgaacctg aggagattga tgatcctgag 240
 gcagccaagc ctgaggactg ggacgatgag gaagatggat aatgggaggg gccaaagatt 300
 gacaacccca agtgtgaaga ggcacctgga tgtggcgagt gga 343

<210> 10388

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-H11

<400> 10388

cggacgcgtg ggtgccaaagg cgacctggcg cgaggccagg gagtgcattc acgtcgagcc 60
 cgaggaccgc aagggcgtct tctggtacaa caagaagttc tagccgccgc cgctcgcaga 120
 gctgagagga cgctaccata ggaatgggag caggaaccag gaggaggaga cggtactcgc 180
 cccaaagtct ccgtctacct atctaatacgt tagtcgtcag tcttttagac gggaagagag 240
 atcatttggg cacagagacg aaggcttact gcagtgccat cgctagagct gccatcaagt 300
 acaagtaggc aaattcgtca acttagtgtg tcccatgttg tttttcttag tcgtcgctgc 360
 tgtaggcctt ccggcggcgg tcgttttgtg ggttggcatc cgtggccatg cctgtgcgtg 420

<210> 10389
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-H2

<400> 10389

aacaatttct tccattcaac caactgtcta cattgaaccg tgctgcttat ttgcagcaac 60

aactattacc attcagccag ctagctactg cctactctca gcaacaacaa cttcttccat 120

ttaaccaatt ggccgcactg aaccccgctg cttatttgca gcagcaaata ctactaccat 180

ttagccagct agctgcagca agccgtgctt cttcttgac acagcaacag ttgctgcctt 240

tctaccagca gtttgcggt aacccgcaa cccttttaca actacaacaa ttgttgccct 300

ttgtccaact tgctttgaca aaccagcag cctcctacca acaacacatc attggtggtg 360

ccctctt 367

<210> 10390
<211> 246
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-H3

<400> 10390

cttctcgctg tcgcagaaca agagcggtga ctgggagtg tggccgctgg aggactccgt 60

gccgccggt cctattgtcg tcccctctc ctcctcatca tcatgaaaga tctatgaatc 120

catagtacac acatacggtg cagaagtga agaaacaatg ttcattggaac aaacgatgaa 180

cagcctgttt tggtcgtcgt aatctataaa aaaaaaaaa attaaaataa tataaaatag 240

aaaata 246

<210> 10391
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-H4

<400> 10391

cgacggtgag cçgtgçgtcc ctcgaccaga agctcgccct cgccaagcgt tgctccccgag 60

aggcgaccct cgccggagcc aaggcggcag cçgtggcgac tatcgçctcc gçgatcccca 120

ccctggccag cgtgçggatg ctgçcatggg ccaaggccaa catcaacccc accggccagg 180

cçgtcatcgt ctccacgggtg gctgggatgg cctacttcat cgccgçcgac aagaagatcc 240

tgctçgtggc aaggçgçcac tcgttcgagc aagccçctga gcacçtcaag aacacçtçct 300

tccagggcac cgçcçgtccc caccçgtçt tçttcaggcc gtgagaccag acçttcçgtcc 360

agagçtagct acçtacçtçt tttttcagtt gccaatgcaa gcacçaaatg cccaccgatg 420

catg 424

<210> 10392

<211> 144

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-H7

<400> 10392

aaaaaaaaa aaaaaaaaaa ataaaaataa aaaaaaaaaa aaaaaaaaaa aaaagaaaaa 60

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaatta aaatattttaa aaaa 144

<210> 10393

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-H9

<400> 10393

cçgacgcçtg ggçtagcaac atagaaagca caatagtçta ccaacaatgg tagccaaaat 60

atçttgçctc çttatgçtcc ttggçtçttc tgcaagtçt gçtacgacga ccattttccc 120

gcaatgçtca caagçtççta tagçttçtçt tçttcccca tacçtçtcac cagçgttgçt 180

tçcagçtatgt gaaaacccaa ttçttcaacc çtacaggatc caacaggcaa tcacagcagg 240

catçttacçt ttatcacçct tgçttçtcca acaatcatca gccçtattac atcaattacc 300

tttgggtgcat ttattggcac aaaacatcag ggcacaacaa ctacaacaac tcgtgctagc 360
 aaaccttgct gcctacgctc agcaacagca gttacctttg gtgcaattgt tggcac 416

<210> 10394
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-A1

<400> 10394

aagatattag ccttccttgc gctccttttc ctttcagtga ggcgaacaac tgcattcatt 60
 attccacaat gctcacttgc tctaatgcc attattccac agttcctccc atcagttaca 120
 tcaatgggca tcgaacaccc tattgtgcaa gcctataggc tacaacaagc gcttgctgcg 180

agcgttttac aacatccggt tgcccaatta ctacatcaat tcttgtctac atttaaccat 240
 acttaccttt ttttctcacc ttgtagctac tgtttttctc ctatttttgc catctatctc 300
 tttggtacat ctgttttttt cttttttatc ttttgttttt tttttatcct tttttttttg 360
 ctttttatct ttattttttt ttttttatct tattttttta tttttttctt tatttcttgt 420
 tttctttatt ttctttttat tttttttttt 449

<210> 10395
 <211> 351
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-A10

<400> 10395

aagggaatca catcgccatg gcagccaaga tgtttgcatt gtttgcgctc ctagctcttt 60
 gtgcaaccgc cactagtgt acccatatcc cagggcactt gtcaccacta ctgatgccat 120
 tggctaccat gaacccatgg atgcagtact gcatgaagca acaggggggt gccaaattgt 180
 tagcgtggcc gaccctgatg ctgcagcaac tgttggcctc accgcttcag cagtgccaga 240
 tgccaatgat gatgccgggt atgatgccac cgatgtctat gatgcctatg ccgagtatga 300
 tgccttcgat gatggtgcct actttgatgt cccaatgact atggcttgta t 351

<210> 10396

<211> 411
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-007-Q1-K1-A11

 <400> 10396

 cgcagatgta tccaccgtgt cgtcccggca ccaccgggcc aaggatcggc cgcgtgaggc 60
 ttacgaaggc cggggagtac gccgcggggt tgccgatgat gtgccggctg tcggagcccc 120
 aggagtgcag catcttctcc ggccggcgacc agtactagct accaggggta aaaaaaaaaag 180
 agtgagtcgg cgcgacgtgc aaggcgcagc atgtgtactg tgccgctgca aatccagaat 240
 gacgtagctc tgacgtgggc tcgcaatatt ctccgctggt cgttacaata atgataataa 300
 ctatgaggaa taaatatggg aatgttgcca gtgccagata gtactggcgc cggttcttcg 360

taatgaaaaa ttatattttt ttattttata ttattttttt tttttatttt t 411

<210> 10397
 <211> 348
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-007-Q1-K1-A12

 <400> 10397

 cggacgcgtg ggtggtcacc tctagtcacg ttcaaagcga cacgcgcacc ggtcctggag 60
 gcagcagtga accgggcaga ggaagagaga gagagaagta gggaacgccc accgcggcgc 120
 cgacgacgcc acaccgggcc gagccgaaac cgagactgca tccttcttag cggcgcgcgcg 180
 agatgagcgg catgagcctc tcccatcgtc tccctcccgc cgcggcggcg gtggaccctt 240
 actacgtgta tgccggcgac ccggacccac agcggcaggg cgtgctcagc ctcttcgtcg 300
 cggtgctact tgatgacttg aatcctcgcg agatccacaa tcttttct 348

<210> 10398
 <211> 247
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-006-Q1-K1-E8

 <400> 10398

gcggtgccgt acatgcgaag cccaccgaag ccggtgccat gtatgcaaaa atctctatac 60
cgagaagctg atgccggcat gtcgccgctc ctttttctct gatcccggcg ccggaagcct 120
tcccccttct cttctgctg agcgccagcg ccggtgctct cagcgaactt gccccaccgg 180
cccgcccttc ccgggcctta cctgattccc cgctctccag cgctgggcgc tggtgtgct 240
gcagcgt 247

<210> 10399
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-E9

<400> 10399

ctcagtctga agccaagttt ttctggaaca gaccttggtg agcatgttcc acgacgtaca 60
gaagaggaaa ttctctgta cccgggattt gagaataccc ctgtgaagtc cggtttttgg 120
cctctggtgc catctgatcg tcccgttggt gatgttccgg ccataccatc ctggcagcag 180
gcgtacatgg ttgacagcca aggcgcattt tctggctctc cgttcttgca gtcgaacctg 240
ttggagaacc gttcgttagc acctatccgg caggtgaatt tcttctgacg gagacaggat 300
taacagattc atacgattct tgatacgctc agcttctcgc tgtatacaca ctatcttgaa 360
taaagtgttg ccagtagagg aaatgtatat acagttcggt cgtagctctt gagcttcttt 420
ctttctag 428

<210> 10400
<211> 212
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-F1

<400> 10400

aaagaagctc tatctttcgc gcaatgttat gtgctacaag tgcaagggca aggacatgaa 60
gtctggcgcc ttaaagatgt gccgtgagtg ccagtgctaa ggcataatg tcaactattg 120
tgagatgaac ccttatatga tgcaccagat gcttgaatct tgcgacgagc gcaatgtgac 180
tggacagagc atcaatgaga aggaccgctg ga 212

<210> 10401
 <211> 190
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-006-Q1-K1-F10

 <400> 10401

 cggacgcgtg ggcggacgct ttggcattaa atttgcagtg tttttgctta gctgtacggg 60
 cttcccaact ctcaacttat tccagggcct tcaggacatg acgggcatac tactgcagac 120
 attcatccag agtctccatc aaatgatgga ccacgaagcg aggatgctgc tgaccactgg 180
 ctattcgcac 190

<210> 10402
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-006-Q1-K1-F11

 <400> 10402

 cgagtccaag atcatcctcg atcgggagac gcagaggtcc cgcggcttcg gcttcgtcac 60
 cttctccacg gaggaggcga tgcggaacgc catcgagggc atgaacggca aggagctgga 120
 cggccgcaac atcacctgca acgaggccca gtcccgcggc ggccgtggag gcggcggcgg 180
 tgggtacggt ggtggccgtg gaggcggcgg ctacggcggg ggccggcgcc gtgatggcgg 240
 cggcggctac ggcgggtggcg gcggctacgg tggcggcggc ggctacgggt gtggtggcgg 300
 cggctacggc ggtggcaacc gtggcggcgg ctacggcaac tccgacggga actggaggaa 360
 ctgagcgggt gggcccgcgc ggccaagtta tcctgttcgc tgccgtgatg tttaccctag 420
 tcc 423

<210> 10403
 <211> 388
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-006-Q1-K1-F12

 <400> 10403

cggacgcgtg ggtatctcca aggatggcca gacccgtgag catgctctcc ttgctttcac 60
 acttgggtgtg aagcagatga tttgctgctg caacaagatg gatgctacta cacccaagta 120
 ttcaaaggcc cgttatgatg agattgccaa ggaagcccc cagtacctga atgggggcttg 180
 aaccaccaac ctggccaggc cacctggcac aaccagcgct tgccgcgagc gtcttacaac 240
 aaccaattgc ccaattgcaa caacaatcct tgccacatct aacaatacaa gccatcacia 300
 cgcaacagca accacagttc ctaccagcac tgagccacct agccatgggtg aaccctgccg 360
 cctacttgca agagcagctg cttgcatac 388

<210> 10404
 <211> 316
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-F3

<400> 10404

ctcacgcgtc cgagaggatc tacgcattaa gctagatgag gacctacttc tacagcaggg 60
 aagaacacgc tggataaatc ggacgagctc tcggatgcga tggaatcggg ggagaactag 120
 aaggcgtaaa aggacatctc aggagcgctt gaatggatgt actagaagaa cgcatgctaa 180
 tgggactact atgaagaaaa atgtacagcg tgaccaatcg cttcgaatgg attgaactca 240
 tctgggtcat gcggaagacc aactccttcg agaagcacgt gtgagactac cagaaggcat 300
 gcgacgtgaa cagact 316

<210> 10405
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-F5

<400> 10405

cccacgcgtc cgcttttcta ttcgcgccgc cgccgctgct gcaagcgcca gctcgccgtc 60
 gtccgaatag tacactctaa cgccgcatg gggcgatgc acagccgcgg gaagggtatc 120
 tcgtcgctcg cgctgccgta caagaggacg cctcctacct ggctgaagac cgccgcctcc 180
 gacgtggagg agatgatcac aaaggcagcg aagaagggac agatgccgtc gcagatcggc 240

gtcctgctcc gtgaccagca cggatatcccc cttgtcaaga gtgtcaccgg cagcaaaatc 300
 ctccgcatcc tcaaggccca tgggctggca cccgaaatcc cggaggacct gtacttcctc 360
 atcaagaagg cggtagcgat aaggaagcac cttgagagga acaggaagga caaagactct 420
 taa 423

<210> 10406
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-F6

<400> 10406

caagtagctc tggcaaacct ttctccctac tctcagcaac aacaatttct tccattcaac 60
 caactgtcta cactgaaccc tgctgcttat ttgcagcaac aactattacc attcagccag 120
 ctagctactg cctactctca gcaacaacaa cttcttccat ttaaccaatt ggccgcactg 180
 aaccccgctg cttatttgca gcagcaaata ctactaccat ttaaccagct aggttgaaca 240
 aaacggggct tctttttgaa cccacaaccg gtgctggctt tctaacaaca atttgggggt 300
 taccocggaa cccttttacc actaccacaa ttgggtggct ttggccaact tgctttgacc 360
 gacccaacgg gcttctaaca acaacacatc attgggtggtg ccctttttta aaatgggttat 420
 taat 424

<210> 10407
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-F7

<400> 10407

cccacgcgtc cggagaaatc aacggaacac aacatatgtg gatgctgtga tgacggttcc 60
 gcttggtgcc atgctgcctg tgagcgggat aaatgttgca ttcaaccgcg atgtgctggg 120
 gcctgctatg ttcccaggcc tgcgtctacg aaacgaaggg aagcacagat gggataccct 180
 tgaagacata tggaatggct tatgtgctaa agtagtctgc gacagcttgg gatatggtgt 240
 gaagaccgga ctgccttatg tgatgagaag tgatgcagaa gcaggtaaag ctctggagag 300

cttgaaagag tgggaagggg taaaagtcac ggatgatggt ctcccattct tccagtcgct 360
 caagctatcg aggactgcag ttactgttga cgattgtgtt aaagagcttg ctggaattgt 420
 ccgtga 426

<210> 10408
 <211> 119
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-F8

<400> 10408

gtgcgctcca tcaccaccca gttccaggcc gtcgtcggca tctcgtgct ggagatcctg 60
 tccagccact cctccgacga ggtgtacctc ggccagcgcg acaccaaaga gtggacgtc 119

<210> 10409
 <211> 258
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-F9

<400> 10409

ctcgccggct aggacccacc caagtcacc atgcctgtaa gcggcagtca gttccttctg 60
 tttttttttt gttaagcgcg tgcatactat actatcggtc gcgtcgcacc gatttgtata 120
 ttttccgttt cctaccgagg aatgcttata tataatgaac accagaggac aagtattagt 180
 gctcaaaaaa aaaaaaaata tttaaacata aaagattaaa acaaaaaaat aaaaacaaga 240
 aagttaacct tattaagg 258

<210> 10410
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-G1

<400> 10410

caagcaacat agaaagtggc atccagtttc aacaacagag cagcaatggc gaccaagata 60
 ttttccctcc ttacgtctct tgctctttct gcatgtgatg ctaacgcgac aattttgcct 120

caatgctcac aagctcctat agcttacctt ctttccgcat accttacatc aatgctagct 180
ccagactgtg aaaacccagc ttttcaatcc tatacgctcc aacaagcaat cgagtagcgc 240
tacatacctt tatcaccctt gttgtttcaa cactgcgga gtcctatctg tggggcaaca 300
cattggtacg aaccatcacg gcacactaac tgcagcgact cgtgctacct gtgattaaca 360
cgagttctct gtcaaacctt tctccctact ctcagcaaca acactatctt ccattcaacc 420
aactgtctac actg 434

<210> 10411
<211> 384
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-006-Q1-K1-G10

<400> 10411
ggaaaaaaca actcaggcga agaacgagga cgttcttgag ctggaggagc ggccagagca 60
gatccggtcg gtgctggagg ctggcaccag ggccaggctc agtgatgagg aacacatgcc 120
gtccgtgtct gtgcaggctg aagaccaggc ctttcccaaa ccgaagtgg ccaaagtacg 180
cgccaccgtc ccggtgtgcg tgttcagcag tgtggttggc ggccggcata ggattcctgt 240
gtggattcac cctaggagag atgaggggat taaggcggac gaggggtccac gaacgcacgt 300
gatgccaatg tgcccacatg acatggacag aaaatgtcac tgcggtggac catgcatgcc 360
caatttaagg agcatcagtt agaa 384

<210> 10412
<211> 428
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-006-Q1-K1-G11

<400> 10412
cccacgcgtc cgccccacgcg tccgacaaaa catcagggca caacaactac aacaacttgt 60
gctagcaaac cttgctgcct actctcagca acagcagttt cttccattca accaactagg 120
ttcattgaac tctgcttctt atttgcaaca acaacaacta ccattcagcc agctacctgc 180
tgcctacccc cagcaatttc ttccattcaa ccaactagca gcattgaact ctctgctta 240

tttacagcag caacaactac taccattcag ccagctagct ggtgtgagcc ctgctacctt 300
 cttgacacaa ccacagttgt tgccgttcta ccaacacgtt ggcctaacy ctggcaccct 360
 cttacaactg caacaattgc tgccattcaa ccaacttgct ttgacaaacc cagcagtgtt 420
 ctaccaac 428

<210> 10413
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-006-Q1-K1-G12
 <400> 10413

caacaagcta catagaaagt ggaatccact ctcaacaata gagcatctat ggcgaccaag 60
 atattttccc tccttatgct ccttgctctt tctgcatgtg ttgctaacy gacaattttc 120
 cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaatgata 180
 gcttcagtat gtgaaaaccc agctcttcaa ccctataggc tccaacaagc aatcgagca 240
 agcaacatac ctttatcacc cttgtttcaa caatcgccag cctatctttg gtgcagtcac 300
 tggtaaaaac catcagggca cagcagctgc agcaactcgt gctacctgtg atcaaccaag 360
 tagctctggc aaacctttct ccctactctc agcaacaaca atttcttcca ttcaaccaac 420
 tgtctaca 428

<210> 10414
 <211> 434
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-006-Q1-K1-G3
 <400> 10414

gggaagtcac aaaagctgga gctacgtttc tcaatatccc ggacactgtc ggatacaatc 60
 ttccttatga atttggaag ttgattgctg atataaaggc aaacactcct ggaattgaaa 120
 aggctatcat ttccactcat tgtcagaatg accttggctt tgcgactgcc aacacactag 180
 cgggcgctcg tgcaggagca cggcagttag aggttactat taatgggtatt ggtgaaaggg 240
 ctggaaatgc ttctttggag gaggttgctc tggcaattaa atgccgcaga gaactgttag 300

atggtctcta tactggaatc gattccccgcc atatcacttt gacgagcaaa atggtgcaag 360
aacatagtgg acttcacgtg cagccacata aagctattgt tggtgccaat gcgttcgctc 420
atgaaagtgg aatt 434

<210> 10415
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-E7

<400> 10415

cccacgcgtc cgaatacggg atctttcccg tgtatcccaa ctctcacccg atctcctcga 60
taggccttttg tctccaaggc cgcgctttct aacaagattc ctccccctct ctctccgata 120

acgctagcct ccgcgcgcgc cggcgacgaa tccggcgttt tgagtttctg ttgccagtgc 180
agccatgtcc atgttcaaca ggatcttcgg gaagcccaag gagcaggcca actccagtgc 240
cttggccaca ctcgacaagt taaatgagac tcttgatatg ctggagaaga aagagaaggt 300
gctggacaaa aaagcagccg ctgagcttga gagagccaag gagttctcca aagctaagaa 360
taaaagagcg gctatccaat ccttgaagag gaaaaaactt tatgaacaac aaattgagca 420
actcggaat ttt 433

<210> 10416
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-D11

<400> 10416

cccacgcgtc cgacctctc gatccagaca gcaggcagca gccatgtcca aggtcttcac 60
cctcgacgcg gtcgccaagc acaactccaa ggaggattgc tggctcatca tcggcggcaa 120
ggtgtatgat gtgacgaagt ttttggtaga ccaccagga ggtgatgatg ttctgttgtc 180
ctcaactggc aaggatgcga ctgatgattt cgaggatgtc ggtcacagca aactgccccg 240
cgcgatgatg gatgagtact tggtggtga aatcgacgcg tcgacgatcc cttccaggac 300
gaagtatgtc cccccgaaa c 321

<210> 10417
 <211> 396
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-006-Q1-K1-D12

<400> 10417

 cccacgcgtc cgaccacgcg tccggatagc tttatttccc ttgccctttt ccagagcacc 60
 tccgccgtcg gccatgggtc aagcctgggg taatctccaa gatagggtcc aaggtaccgc 120
 cccctcaact caatcgtgtg gattcccatc ttattcgcag cgatcgtacc cagtctcgcg 180
 aacagtcgaa tcggtagaga tgaacgacga atcgattcgg tgcaaggcgg ccgtggaagg 240
 agcaccaagt gaggaagate accgacaagg tgttegaccg cctcacggag gacgcccaga 300
 agcgcgacaa ggaggccctc agattcgagg aggtctacat cgccgtcctc tgcgtctaca 360
 atgacatcaa caagtacttg ccgnggccgc accacg 396

<210> 10418
 <211> 349
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-006-Q1-K1-D4

<400> 10418

 gtcaacacta acagtagacg aattcttttag tttctttgca agatatggga ctgtggtgga 60
 ccaccagatt atgtttgatc atgaaaccaa acgttcccga ggctttggat ttatagtttt 120
 tgcttctgag caagttgtag atgatttggt agcaaagga aatatggttg accttgctgg 180
 ttcaaagggtg gagatcaaga aagcagaacc aaagaaatcc ttcaatgcac cgtcaccacc 240
 agtgcattgtt agaaatgcta tgtcagcata tgatagcggc tctagagacc acccttcagc 300
 tgacaactat ggtggaatgg ccagtgccta tggaaactta cagggtggt 349

<210> 10419
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-006-Q1-K1-D5

<400> 10419

cccacgcgtc cgggcgaggga agactttcct gccatcatgt cgagcttcaa gaagttcaac 60
gactcgttca tggaacagta cgagggctac tccaggctgt gagcaggaag agaaacaaga 120
gattacagat ctgaagaaga gattattgat tggaagctta ttagttattg taactccctt 180
gaaaagcagg ttgtgcgggg attattgttt attgaataaa aagtccgcca tttgattcta 240
ctgccatacc agtatatata attgtgaatt ggcttgact tgctgctggt ggggagaggt 300
ggaaatagct agccctcctt gaccgcgcgc gataagaatg tcgcctcttg ttctggagat 360
tattggagag ttgaatagtt cataatcagc ctacctaaa tatattgcag aaaaagtact 420
gatcat 426

<210> 10420

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-D6

<400> 10420

cccacgcgtc cgcccacgcg tccgcctacg cgtccgcttc aaccctacag gatccaacag 60
gcaatcgcag ctggcatctt acctttatca cccttggtcc tccaacaatc atcagcccta 120
ttacagcagt tacctttggt gcattttattg gcacaaaaca tcagggcaca acaactacaa 180
caacttggtgc tagcaaacct tgctgcctac tctcagcaac agcagtttct tccattcaac 240
caactagctg cattgaactc tgcttcttat ttgcaacaac aacaactacc attcagccag 300
ctacctgttg cctaccccca gcaatttctt ccattcaacc aactggcagc attgaactc 359

<210> 10421

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-D7

<400> 10421

cccacgcgtc cgattgagac caactagcaa catagaaagc acaatagtgt accaacaatg 60
gcagccaaaa tattttgcct ccttatgctc cttggtcttt ctgcaagtgc tgctacggcg 120

accattttcc cgcaatgctc gcaagctcct atagcttccc ttcttcccc gtacctctca 180
ccagcggtgt cttcggtatg tgaaaaccca attcttcaac cctacaggat ccaacaggca 240
atcacagctg gcattctacc tttatcacc ttgttctcc aacaatcatc agccctatta 300
catcagttac ctttggtgca tttattggca caaacatca gggcacaaca actacaacaa 360
cttgtgctag caaaccttgc tgcctactct cagcaacagc agtttcttcc attcaaccaa 420
ctaactgcat tga 433

<210> 10422
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-D8

<400> 10422

cctaaacctc cagcccaacc ttcagcccgg gatcgagagc aatggcgctc gccaaaggcca 60
aggagatcgt tgctccgct ccctcgctcg tcttcagcaa aacttctgct cttttctgctg 120
tccgtgtgaa gcagttgttc gagaagctcg gagcaagcta caaggccatt gagttggata 180
aggaaagtga tggagctgag ctccagaatg ccctgaagga gtggactgga cagaggactg 240
tcccaaatgt cttcatcaat gggaagcata ttggcggctg tgatgatact aatggcactg 300

<210> 10423
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-D9

<400> 10423

aagaaaggga ggcgaagtgg gcgcatgcc agaggactct ccacgggctc cagccgccag 60
aggcatccat cttcgagaac aagacgacat tcaatgagct gaaccagctg gcggaagagg 120
cccgaggag agccgagatg gcgaggttgc gagaagtga caccctgaag gggaggatgg 180
agtcagtggg gaagcagaag ggtctggaca tcgagaccat ccagcagtc tacaccgtgt 240
gactggctga ccgacgacga cggggtttat agaggtttct tctttttata ctatacaatc 300
tgtactaggt agcaataagg atcaaggaag gaaccctat atattggctg gggttcgctg 360

gaaatgaatg atgggcatat ttatg

385

<210> 10424

<211> 194

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-E11

<400> 10424

cgcacgcgtg agacaaccac taccggttct tctgctagct ggagtgagcc ctgctaccgt 60

tttgactcaa ccacattatg cgccgtacta gcagatcgct catcctaata ctggcacact 120

gctgcaactg caacaagtgc tgcccttgaa ccaacttgct tcgacagacc caggagcaat 180

ctagcaacaa ccca 194

<210> 10425

<211> 157

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-E12

<400> 10425

ggtcgaccag ctccggctgt tcacgggcca gttgtctatg ttgcgactac caccattgct 60

cggcaacgtg ctgggggtcg cgaaatccct gacgtgccgg gcctgaaaat ggagcacacc 120

tctgcgaccg cagtgtctaa gcaagggcag gacaaga 157

<210> 10426

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-E2

<400> 10426

gtcacggcgc gggagatcga ggacgatttc cggatgtttg gggttctgag gagtgtatgg 60

gttgctagga aaccaccagg gtttgccttc attgactttg atgaccgcag ggatgcacaa 120

gatgccattc gtgaattgga tggtagaat ggttgagggg ttgagctgtc aactaaagtt 180

ggtggtggcc gtggccgaga ccgtaacggt tctgatatga agtgctatga gtgtggtgaa 240

gctggccact ttgcacgtga atgccgctta eggattgggt caagaggctt gggtagtgga 300
 aggcgtcaca tccgaagtcc tagatatcgc agtcgcagtc gcaaccgcag cccaagatat 360
 cgaaggagcc caagctatag cagaagcccc cgagatcggt ctcctaggag gcga 414

<210> 10427
 <211> 140
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-006-Q1-K1-E5
 <400> 10427

ctataaacat gaaatttgta tggcccattt atgttgatc cgtactgggt gtttggtgtt 60
 acctaaacta tagtggtatg tttatgggtgc cctgtgctac atgattcttg caaatccagc 120
 atggtgtata tttgttggcc 140

<210> 10428
 <211> 367
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-006-Q1-K1-E6
 <400> 10428

ccctgttgat gctgtcttcc ataaggatga gatgattgac atcattgggt tgaccaaggg 60
 gaaaggttat gaggggtgtg tcaactcggtt ggggtgcacc cggttcccc gtaagaccca 120
 caggggtctc cgcaaagttg cttgtatcgg tgcattggcat ccggctagggt tctcctatac 180
 ggttgcccgt gctgggtcaaa atgggtacca ccaccgcact gagatgaaca agaaggttta 240
 caagatcggc aaggctggac aagagaccca cgatgcctnc acagagtttg acaggactga 300
 gaaggacatc actcccatgg gtggcttccc ccattatggt ttcgtgaaag gtgactacct 360
 gatgatc 367

<210> 10429
 <211> 395
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-B2

<400> 10429

tggcataacg aagctgaagt agttcgctgt gaaccagta tggcaaacgc gccgaggatc 60
ctggccctcg gactgctagc gtcctgtgct gctgccgccg gaccggccgc cgcgcagaac 120
tgccgctgcc agccaaactt ctgctgcagc aagtccggct actgcggcac gaccgacgcc 180
tactgcggcg acgggtgcca gtcgggcccg tgccgctcgg gcggcgggcg cggcgggcg 240
ggcggcagag gcggctgagg cagtggcggt gcgaacgtgg ctaatgtggt caccgacgcg 300
ttcttcaacg gcatcaagaa ccaagccggg agcgggtgcg agggcaagaa cttctacacc 360
cggagcgcgt tctgagcgc cgtcaacgcg taccc 395

<210> 10430

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-006-Q1-K1-B4

<400> 10430

ttcaatccat cctggcgtcg gtgtcttgcc ctgccccagc gccgcgcctc ctccccccac 60
cccgaagcgc cgctcttctt gcctccgtcg acgggtggtg tgctcctgat cccgcgcgtt 120
gaactggcca taggagagca aagaggaagg ggaggccacg agggcgccag tagatatatt 180
catcttcacg tcggcttgcg atatttttga attntctatt ccgtattgaa ggcgctgatg 240
gccttgctcg ccctaatacag caccctctc gccgcgcgcca tctggtgcgc cgcttacctc 300
gccgctgcca tctcctccgc cttctgattc ccaactccca ctcccccaacc ctaacctccc 360
ccctgtagca caccacacct ccagctttgt aggtcctact atacttgcaa cctctccgcg 420
cgactcgctt cga 433

<210> 10431

<211> 391

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-006-Q1-K1-B5

<400> 10431

cccacgcgtc cgcggaacgcg tgggggatca catacacttg gaaggtccag gcctgaacgg 60

agtggctggg ggaaaccaga aacaaaatat actaaaaatg gtccctgggtgc acctgggtggg 120

caatcatgga cagttgaatg gctgagggtt gataacagtt acttcaagga tatcaaagag 180

aaacgagatc aggatcttct ggtcctacct acagatgctg ctttatttga agacccaaag 240

ttcaaggctc atgcgagaaa atatgcagag gaccaagacg cattcttcag agactacgct 300

gaggctcatg ctaaactgag cgaattngt gcatagttcc aaccaccgca gggattctct 360

ttggatgatt agtgcggcac cagaaccaca g 391

<210> 10432

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-B7

<400> 10432

cccacgcgtc cgcaagaaca ggggagggag gaagatctgg caggaaatgg agaagaggat 60

agggaccata attctatcat tccaagccgt gaggagtga ctgaagaatt aagaaataaa 120

gttgcatata gtgaggaaga agcttacagg ttgtactgtg actatgggca ccgcatgggc 180

tttagtggtc gaaaaggaaa gcagtactac ttactggaa ccaaaaccat ccgtactaaa 240

gattattact gctcaaaaga aggcttgaag gatgatgaac agcttactga agcaaacttt 300

aataagccgg agaccagaac taattgcaa gcgatgggtc gttttagggt tgattctgaa 360

ggtcaatggc gagttattca aataattcct gaacacaatc atgagctagt tcgaccggaa 420

aaaatacact t 431

<210> 10433

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-B8

<400> 10433

gggcgataaa ggtatgttgc ttgccttgt tgtttcaaca atcgccagcc ctatctttgg 60

tgcagtcatt ggtacaaacc atcagggcac aacagctgca gcaactcgtg ctacctctga 120
 tcaaccaagt agctctggca aacctttctc cctactctca gcaacaacaa tttcttccat 180
 tcaaccaact gtctacactg aaccctgctg cttatttgca gcaacaacta ttaccattta 240
 gccagctagc tactgcctac tctcagcaac aacaacttct tccatttaac caattggccg 300
 cactgaaccc cgctgcttat ttgcagcagc aaatactact accatttagc cagctagctg 360
 cagcataccg tgcttacttc ttgacacagc aacagttgct gcctttctac cagcag 416

<210> 10434
 <211> 426
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-006-Q1-K1-C1

<400> 10434
 gtgagaacct ggacgtctat gatgagtaag ggcagcttgt gaagcgggca gtggccctaa 60
 acagcacaga acttgactac gatatatgag gtgcacatat cataccacag ctttgatagt 120
 tgtagtgga attggtgctc tctaccctca gaaatcaatt ttctccgatt gtccatggct 180
 ttttgggtct agaattgtag atagagagga gattttcctc ttgatagggt tgctgcttac 240
 agtggctgaa tgtatctcac cggcgattta ctgatttgct catgaacatt tgtaatcgcc 300
 agaaccttcc tggcgaccaa agtatgctgt caatatattg gacacctgaa gaactgcttg 360
 gagtctacac aggacctgat ctttaaatat ttggccaccg aatttttcta aaaccggatt 420
 acataa 426

<210> 10435
 <211> 411
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-006-Q1-K1-C10

<400> 10435
 cctaaggctg gtgcagggga aaatacttct gttgtctctg ctgttgctaa tgatgccgct 60
 acattgtcca aggcagacaa actaacttct cagcctcaaa cagctccatc ttccaagcca 120
 actgccaatg taaaggacac agctactgag tttgctacac tgtctttatc aaagaaggat 180

tctgttgttt caaatggtgc tgtgcttagc attggatgtc tcacatccgg tgagaaagca 240
atgaacttat cagaatctgt ggatcaagct aatgaaatca caaaagcact tcctacgagt 300
cagaacaata ctgcaccagt aattgctcaa gcagattgtg gagtagagat cagctctggt 360
gtcatcatgc acgttgctgt gtctgcttca tgcaatggaa ctacagagaa a 411

<210> 10436

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-C11

<400> 10436

gtgattaatt gcatgccaaag tatgctttat atcaatgctt cttttttgtt gtcactgtct 60
tctgctgatg aatctgaact aactgaaaac attaaccgag tttgtcatag tcttgaattt 120
cattgctggt gtccttggtg tagtaagctt ttaattctcg acaggctgag gatgatgatg 180
accttgatct ttttggtgat gaaactgagg aggacaagaa ggcagctgat gagcgtgctg 240
ccgctgccaa ggcctcttct aaaaagaaag aaagtggtaa atcctccgtc cttatggatg 300
taaaaccatg ggacgatgag actgatatga agaagctgga ggaggctgtc cgcagtgtcc 360
agatggaggg tctgacttgg ggagcatcaa agcttgtgcc tgttggatac ggcatacaaga 420
agatgacta 429

<210> 10437

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-C12

<400> 10437

gccacagcgt acggccacgc gtgcgtccac tcgtacgacc acgcgtgcgg ccacgcatac 60
gcatthgttc aggtgaagct ggtagccgtg caacttggag taccaggacg agttgggtgct 120
gtggacggag agcggcgacg tgggcaaggg cttcagatgc atgcgcatgg tgaacaacat 180
acgactgaac ttcgacgcct tatacggcta caagggccac agcgggttgc tcgacggcac 240
cacctgggtg ctgtgggagt gtgccaaagg cgacaaccag agctggaaga tcctggcatg 300

<210> 10438
 <211> 420
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-006-Q1-K1-C3

 <400> 10438

cccacgcgtc cgccacgcg tccgcctaaa ccctcgctac ccggcggcgg ctacaagctc 60
 ttcgtcgggt cagcaccatg aggccaccgg ctagaggagg acgtggtggg aggggtggcag 120
 gttcgatggc ggcggccgtg ggggcggcgg cggcggccgt gggtttggcg gtggttagagg 180
 cgggagaggg gacaggggag ggagaggtgg caggaccccc agaggcggcc gtggcggcgg 240

 tggcaggggt ggccgcggcg gtggcatgaa gggcgggagc aaggccgtcg tgggtggcgca 300
 caagcacgcc ggtgtcttca tctccaagtc caaggaggat gcgctctgca ccaagaacat 360
 ggtcccgga gagtccgtgt acggagagaa acgtggctcc gttcagaatg aggatggaac 420

<210> 10439
 <211> 414
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-006-Q1-K1-C4

 <400> 10439

caagcaaggg gcttagtgat ggacatttca agaggtggta ttgtgcctcc tcaagggttc 60
 cgtgagtctg ttgttaactt tttcaaggag gctggtcgac aggaagaaat tgagaaagct 120
 tttgaagaaa aacctatgcc aacacctcag tctagaacag agtatcagcc taggactgag 180
 tatcactctc gcaatgcaga cggtagtctg caaataaaac aacctggctt tagctctgct 240
 ccagcgggtg gacctgaatt tcttactct cagccacaac aatccacact tagtaacact 300
 ccaaatacagc agcctgagtt tggctcatct cgatcatgga attcaggttt cggtgctcct 360
 caagcgcaat ctggatatgg tgcaccttaa cctgtacaga caccacagcc acag 414

<210> 10440
 <211> 354
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-C6

<400> 10440

actgatcgta caactgatag gataactaag ccgtaaacga tgcaactgtg gctagaactg 60
cagctcgcta caaattgcmc taacaatcgt gctgatcatc tcattgattg tcacctagaa 120
tgcaccctat gtgacaccaa accagatact aatgagact attgctgtaa atatgatcat 180
tcaagcgatc atgtcatcca cataatgatt caaatgaagc atgactcgga caatgacttc 240
gagatggagg acatcattga tgatatccat gatcacactt atgtactcac taatgcaagg 300
aatggatcac tgattgagcg gccgcatgag cgtgctcata tggttgctat tagt 354

<210> 10441

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-C7

<400> 10441

cccacgcgtc cgcggacgcy tggggagttg ccaagggttaa gattgtttgtg tgaatcttac 60
ttgtgcaagc atatttctgt aaattccgtg gcaactactc tagcattggc tgatcggcac 120
catgctatgg agcttaaate cgtttgcctc aaatttgctg ccgaaaacct'gtcagctgtg 180
atccggactg agggtttcga ctatctcaaa gacaactgcc catctctgca gtcagagata 240
ctgcggaacag ttgccgggtg tgaggagcca tgtagcagcg gcttgaaaag ccagagcgtg 300
tgggcgcagc tctctgacgg cggcgacacc agcgggcgca gggtgaggcc aagggtctga 360
gacgcaaacc ccggaagcac tgacctttgt aatcaaaagc tgttggtgtg taaatgggac 420
ggcttttct 429

<210> 10442

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-B12

<400> 10442

gtcatctgct ccaagtgcaa gggcaagggc tcgaagtctg gtgcctcaat gaggtgccct 60
 ggttgccagg gctcaagcat gaaagtcact attcgtcagc tgggcccttc catgatacag 120
 cagatgcagc agccttgcaa tgagtgcaag gggactggag agagcatcaa tgagaaggac 180
 cgctgtccag ggtgcaaggg tgagaaggtc attcaagaga agaaggttct cgaggttcat 240
 gttgagaagg ggatgcaaca caaccagaag atcaccttcc ctggtgaagc tgatgaagcg 300
 cctgatactg tcaactggaga cattgtattc gtcctccagc agaaggatca ctccaaattc 360
 aaaagaaagg gtgaagatct cttctatgag cacaccttgt ctctgaccga agcactatgg 420
 gggttcca 428

<210> 10443
 <211> 372
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-005-Q1-K1-H8
 <400> 10443

cccacgcgtc cgaaagggtcc cagcttttccg tgttcttctg cttcttttccc cgcctcgcct 60
 tccttcccc cgtcaccaga tctcgaggca gcggagtccg gggacgccgt tctttccggt 120
 gtgcttcctt tgectcttgc tgccggtggc cgggtgatttt cccgaggtct gtttgggcgg 180
 caggtagagg ctattttctt ggccggtggt gggatggata gccacgccga cgggtcgagc 240
 tccggcgggt ccggggatgg cggcgcgag cccaggagga gctccaggaa acccacgtat 300
 tccaagttta ctcagcagga gctttcagct tgcaagccga ttcttactcc aaaatgggtt 360
 atttcagtat tc 372

<210> 10444
 <211> 325
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-006-Q1-K1-A1
 <400> 10444

cggacgcgtg ggctgaggac aaagcgtaa gaaaaaaaaa gggaaaagg gctggtgcgc 60
 aaaaccctag cgcagtcgca tccatcatgg cgatgtccat cttcgtcggc ggcgactccg 120

gtgcgctcat cgcgccgctc gcgtcctcgc tccgccccgc gttccgtctt gccgctggtc 180
ccaagggcca tttttgtact tttccttatg gagcatctag caatcacagc eggctatgtg 240
ttgaacatca aaggtgttct tcgaactcca cccagaacta tgctctttct aagaaggatt 300
tttctcctat tacttcagat gtgga 325

<210> 10445
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-A10

<400> 10445

gttcccgctct ctccgcccgt tccttggaag acgaagaaac cctcctccac caccaaccgc 60
atccagctac atccgttgag gcccggtcgt ttcttccctg ttctcccatc aatcgaccta 120
gccttacgcc gaccaggggc ttcctctaata cgatctgggtg tctgttctgt ggtcttttgg 180
tctgggtgca ctccaggggc aggagcagct agccgtcttc gttcgatccg ttcgcatccc 240
caacgcggtt cgatttgaag gagcgtgatg gccaaagcga gctcgttcaa gctggagcac 300
cccctcgaga agaggcaatc tgaggctaac cgtatcagag agaagtacc tgacagaatt 360
ccagtgattg ttgagaaggc tgagaggagt gatattcctg acatcgacaa gaaaaagtac 420
ctcgtcct 428

<210> 10446
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-A12

<400> 10446

atccttagta ttttgacaca tattctaagt attctgttat aagtggcaca aagcgtctct 60
gaaaccggtt taacgaggtt tatgcatgaa ccatgatata ttcttgaata cacagacttt 120
ttgtgtccta caaatgacga tagaaatgta cgtgctttgt ttgagagggc actgagctta 180
cttgctcgca aggaatccac agacgtatgg agacgatttg cacaatttga acagaactat 240
ggtgatttat caagcatgct taaggttgaa catagaagga aagacgtctt atctaagaca 300

tctgaagatg ccttatctgc atcggaac acactttatg acataacttc tcgatacagc 360
 tacatggatc tttggccatg ctcatcatc gaattggatt atctaacgag aca 413

<210> 10447
 <211> 565
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-006-Q1-K1-A4

<400> 10447

ccgggtcgac nccacgccgn ntccgcaagg ggtgctcaac cttagaatt ggtggtcatt 60
 ttgtagtctg ttgcttggt gaaggggtcg anntatccgt gcacctnnt ggtggtngnn 120
 gtatgatnnc tacacannnt ttatcaagg gcaccagggn nagtattcnn tgttgnngaa 180
 aatcntnct cgtcggaaga gggataatnn actcgagcct tcgcannnac ttctctttan 240
 nttgagaagg gggcgaaggc ataaagagg ggtttcttct tttttgcgtt ctccacctgg 300
 agtatttgta gtatgccgga cccacagttt gtcagccccg atgccttgag taagcaagaa 360
 attggtccct tgcctactt gctatctnnn ctgatgactn gcgatnnggg tcttgggatg 420
 ttgtgccctt gattgccact cataaaccca ttctgacgaa gccattgtga cactcaccct 480
 aagacttggg gtatttgga cggcgccca tggggaagat gtttgagttt ccaccaagtt 540
 ttgcagcttg gcaccgagg cgaat 565

<210> 10448
 <211> 320
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-A5

<400> 10448

cggacgcgtg ggtgggtcta cgacgacgta ccatttccat tctttaggct atttattggt 60
 ttgggggtggg agtttttagag ctaggatgct gctagcacat agcaacatgg tatatgggtc 120
 gtctgggaaa aaaaaccata ttattatgta actgtattaa ccttggttgt ctcttctcgc 180
 cttctgagat acaagtgtct cttggtcaaa gagggtggg cccgtttcta tgcctatgca 240
 gctatgctcc agtattgtcg catttgcta ggtaaaataa ctaattacat ggcattgcga 300

ttatgttcaa aaaaaataa

320

<210> 10449

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-A6

<400> 10449

cccggtcgac cccgcgtccg cccacgcgtg cgcggacgcg tttccgttcg cgtgggttgg 60

catcgattaa tgcgagtggg ttctcaaaag agatccaacg catctaaact attgggtcttg 120

gctgatccgt ttgctgatgc ttaccctgat atgcatgaca atgtattcat catgattcac 180

ctacttgagt tctcatatc tgattacatg caagtttggc tatgctgaga acatattacc 240

acaatacatt cttaagaatg ctaccatata tattatcaat gcacgcactg atttgctaata 300

tctgaacaac a 311

<210> 10450

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-A7

<400> 10450

tgacccaggc gtccgggctg gaggagctgg tggcggaggt gtgtccgcct gcaggcggag 60

aacgcggcga cgcaggcccg caccgcggcg ctggagcgcg acctgggcag ggtggacggc 120

gacaacgcgg tgctgcgcgc ccgccacgcc gagctggccg gccgcctgca gtcgctgggc 180

ggcgtcctcg aggggtcca aatggccggc gccgcgctcg acatcccga gatggtcacc 240

gacgacccca tgctccgcc ctggcagccg gccttcccc cgatgcagcc catcggttc 300

tgagaatctg agccttagcc ggcgggagag agccaatttc tgttcgctg cccgtggcta 360

tctcgtattg ggatatctaa tcataaatca tcc 393

<210> 10451

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-A8

<400> 10451

gctccgaagt ccgaaccttc atacacatcg tctcgtttcc gatttcecca aattcaggcc 60
acaggcgcta caggaccag gcaccactcg gtcggcggcc accgcgtcgc cccgcctgct 120
cgattgggggt cgcgtgtgcg ataggaagta ttgtgttggt tttgcaacgt gatagcttgt 180
actgggaaca aaggtcaaga tgggcgcctt ggacctacac cttgactttg cttctgctca 240
acatggacaa gccaagttaa aggaatatgc caagagctct ttgttgtctg atggaaacta 300
caatacagac aagatcaatg gttcaaacc tgatgactat gagaaatttg agaaagggat 360
aatgcactat ggggtgtccac attatagaag gagatgccgc ataagagctc cttgctgcaa 420
tgaaatttt 429

<210> 10452

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-B10

<400> 10452

gttggcttct cctccccctc cggttcgggt tcgggttcgt gaggttctcc ggggttcggg 60
ttcgtgggtg agcggatcga gatggcgcg tcggatgttg agtaccgctg cttcgtcggc 120
ggcctcgcct gggccacgga cgaccactcc ctccacaacg ctttcagcac ctacggcgag 180
gtcctcgagt ccaagatcat cctcgatcgg gagacgcaca ggtcccgtg cttcggcttc 240
gtcaccttct acacggagga ggcgatcgg aacgccatcg agggcatgaa cggcaaggag 300
ctggacggac gcaacatcac cgtcaacgag gccagtcctc gcggcagccg tggaggcggc 360
ggcgggtgggt actgcggtgg ccgtggaggc ggcggctacg gcggtggc 408

<210> 10453

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-B11

<400> 10453

gccacgcgtt cgtccacgcg tccggcagcc atcgtgacc tccgccagga gatggcttcg 60
 gatgacatcg agaagatcaa ggccaagctt gaggtcgcca acaaggctgt ctgcaagatt 120
 ggtcagcaca tgtcaggtgg tggctctggc ggctcgcagt cgggatctgg acctcagggg 180
 ggcggtgacc aggcgccgga ggcagagtat gaagagggtta aaaagtgagg ctgcgggaag 240
 ttcaagcgaa attgtagtga cctgtttaga agtagctact cttttttggg aacacagata 300
 gtcagatgag atgtaaaacc tgtgttgtaa taatcggttg atttgcccc acttagtttc 360
 cttctgcggc gatggaggta acacgacatt tcattgcttt tgggtcatat gatgccttga 420
 tctggcatgg at 432

<210> 10454
 <211> 445
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-005-Q1-K1-H7
 <400> 10454

gaaaaatatt cccaaaccct agtccccgat ctcgatggcg aaccctcgcg tcttcttcga 60
 catgaccgtc ggcggcgccc cggcggggcg gatcgatg gagctgtacg ccaacgaggt 120
 gcccaagacc gcggaagaact tccgcgcgct gtgcacgggc gagaagggcg tgggcaagtc 180
 cgggaagccg ctccactaca agggctccac cttccaccgc gtcacccccg agttcatgtg 240
 ccagggcggc gacttcaccc gcggcaacgg caccggcggc gaggccatct acggcgagaa 300
 gttccccgac gagaagttcg tgcgcaagca caccgcccc ggtgtgctct ccatggccaa 360
 cgccggggccc aacaccaacg gctcccagtt cttcatctgc accgtcgca ccccttggt 420
 cgacggcaag cacgtcgtct tcggc 445

<210> 10455
 <211> 211
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-005-Q1-K1-G4
 <400> 10455

ttcaaagacc tggatgcctt tctctatcaa tgggctcacc tctctcagca caggatgcag 60

aacgtcttat ggtactactc tcacatcaag gctgaatgga agctatggat accgttttgc 120
 cttcagtgtg ctccaagaag caactaaca tttcgaccag aactgggtca ttggaagtgg 180
 aggcttttga aaggtctaca aggggggtgat g 211

<210> 10456
 <211> 443
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-005-Q1-K1-G5
 <400> 10456

gcactatccg acactaggcc accaccagcg ggcggggtcc agtcgcaact cgcaacacag 60
 acgccgccgc cgcccaaaga aagacgtcaa ctccaggaga caagatagtg agaactgaag 120
 agaaggatgg gcttcgagaa gcagatcctg agatccggca ccggcccaa gccgataaag 180
 ggccagaagg tcaccgttca ctgcaccggc tacgggaagg atcgtgatct gtccaagaaa 240
 ttttggagca ccaaggaccc tgtgcagcag ccattcagtt tcagcattgg tcagggttca 300
 gtgatcaaag gatgggacga gggagttatg accatgcaag tgggtgaagt tgctcgtatc 360
 cagtgcacgc ctgattatgc ttatggagcc ggcgggttcc cagcctgggg aattcaacca 420
 aactcagtgc ttgtgttcga gat 443

<210> 10457
 <211> 421
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-005-Q1-K1-G9
 <400> 10457

ctacgtgctg catacaataa ccccgagaga gctatagact acctgtattc tggaattcct 60
 gagaatgtgg aggctcagcc tgttgcccga gcacctgctg ctggccaaca aacaaatcag 120
 caggccgcac caccgctca gccagcagtt gcattgccag tgcagccatc acctgcctct 180
 gcagggccta atgcaaatac tttgaacctt tttctcagg gtgttccaag tgggtgggtcc 240
 aaccagggtg ttgttccagg tgcaggatct ggtgctcttg atgccttgcg acagcttcca 300
 cagtttcaag cactccttca gttagtccag gctaatactc aaatcttgca gccaatgctt 360

caagagctag gtaaacaaaa cccacaaatt ctgcggttga ttcaagaaaa tcaagctgag 420
t 421

<210> 10458
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-H10

<400> 10458

atggaagctg cgggaagaag gaaggctctt ggaaattggt gatccagaac tggaaaagta 60
cccagaggag caaatgcttc gtttcattaa agtggcactg ctgtgtacgc aagccacgtc 120
ccagcagagg ccgtccatga agcaggctcgt taatatgcta tctaaccaa cagaaattga 180
tctgcaaat gtagctccac caggtgtgct gaaagaacct cggcagcgta ccggtggctt 240
tggtgggttg atagcagaca cgctctcaag ccaaagcact aaaggcaacc cagctgaatc 300
atacagcaca cagaccaaca tgaacagctc tcagtttagc acaactgatg tatcaccacg 360
gtgacgttgt cgactattgt ttgacgtctt cagaggtgtc tcgcgcc 407

<210> 10459
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-H11

<400> 10459

ccgttaccgc ggggttttaa accctagttc ccattccatc ttcgtttccg ctccgccgcc 60
gtcgatggag ttctggggtc tcgaggtcaa acctggatcc actgtcaagt gtgagcctgg 120
acatggcttt atcctgcacg tttcccaggc tgcccttggg gaatcaaaga aaagtgcacg 180
tgcttaatg tatgtcaaag ttgatgacaa gaagcttgcc attggaacgc tctctatcga 240
caaataccca cagatacaat tcgatttggt tttcaataaa gagtttgagc tgtcacacac 300
atcgaaaact accagtgtat ttttctctgg ttacaagggt gagcagccaa ttgagggaga 360
tgaaatggat cttgattctg aggatgaaga ggaggagcta aacattccag taatcaag 418

<210> 10460
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-H12

<400> 10460

atttagacca actagcaaca tagaaagcac aatagtgtac caacaatggc agccaaaata 60
ttttgcctcc ttatgtctct tgggtatttct gcaagtgtctg ctacggcgac cattttcccg 120
caatgtctcac aagctcctat agcttccctt cttccccgt acctctcacc agcgggtgtct 180
tcggtatgtg aaaacccaat tcttcaaccc tacaggatcc aacaggcaat cgcagctggc 240
atcttacctt tatcaccctt gttcctccaa caatcatcag ccctattaca gcagttacct 300
ttggtgcatt tattggcaca aaacatcagg gcacaacaac tacaacaact tgtgctagca 360
aaccttgctg cctactctca gcaacagcag tttcttccat tcaaccaact agctgcattg 420
aactc 425

<210> 10461
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-H2

<400> 10461

caacaagcaa catagaaagt ggaatccagt agcaacaaca gagcaacaat ggcgaccaag 60
atattttccc tccttatgtc ccttgctctt tctgcatgtg ttgctaacgc gacaattttc 120
cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaatgata 180
gcttcagtat gtgaaaaccc agctcttcag ccctataggc tcgaacaagc aatcgcagca 240
agcaacatac ctttatcacc cttgttggtt caacaatcgc cagccctatc tttggtgcag 300
tcattggtac aaaccatcaa ggcacagcag ctgcagcaac tcgtgctacc tgtgatcaac 360
caagtagctc tggcaaacct ttctccctac tctcagcaac aacaatttct tccattcaac 420
caactgtcta cactgaaccc tgctgc 446

<210> 10462
<211> 408

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-005-Q1-K1-H4

<400> 10462

agaatgacga cctgcaggca aaggtatcgg ctgcttctga gaagattaag gaactctctt 60
 cccagcttgc caatgcaaga gatggcacga tgaatggtaa agccaaggaa gaagataatg 120
 agaagggcga caccgaaaag gatgacgaac ctgttggtgt agttgccaaa gtatgggaga 180
 acagcaactt tgctgactac gattcatcta aggttaaaga gaacgatggc gactcgcaag 240
 ttgatttga atcaaacaag ggcgacgcaa gtgttgacag caacggcctt gtcceaacta 300
 agcagagcaa tggcaggaca tcaccaacta aacagcacca gcagcataag aagaagcttt 360

ctctgaagaa attcggtggt ctgctgaaga gaanagcgaa attagcat 408

<210> 10463
 <211> 406
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-005-Q1-K1-H5

<400> 10463

atactaacga ggaggaaatt aaaaggaaga gaaagaagcg aaagagagtt gttgtattag 60
 ctgtgtctat tatggctata attgcaaatt ggtatcaacg gaggagacct agacacatca 120
 tagatgctaa cgaagttcaa gagagaaatg tcgagtgcag aaaacaaatg ctatgtaata 180
 tgtaccaggg ttcaaattgc tattgctatg acagtttgcg cctaactaag agatctttta 240
 gtgacttgag tgccatctta cgggaaaaga gtggcctaca ggatacccta aatgtgtcgg 300
 tagaagaaaa gcttacaatt tttctgctta tagtaggtca taacaccaaaa aatgaggttg 360
 atccgtagca cttaatgggt ggtcccttga accaatcagt cgacac 406

<210> 10464
 <211> 447
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-005-Q1-K1-G2

<400> 10464

cctgaacggc gtcaatttgc catcaaagta ctcttcaac caagcgacga tctggtcagc 60

ctcaacgtga acccgagcgg gaaggtgaca tcctacgaca gcggcaggac ggcgagacgac 120

atcgtcgact tcatcaagaa gagcaaggag accgcaggcg ccgccaccac caccaccacc 180

caggcgccac cggcatccga gaaggcagcc gccgccgagc ccgtcaagga cgagctgtga 240

gcatccaagg tgtggacggc tgtggctgcg taagcatggg aggaaaacct ggcgctaacg 300

tgcctacaac gcctagtttt tgcgggacca tgaggagaga gagagagggg cggagttaga 360

gagagagggg atctgcgacg tgttttgctc tgcggcgcca tgtctgtgta tccattgag 420

gttatgtaca caattacacc gcggtcg 447

<210> 10465

<211> 270

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-E9

<400> 10465

gttttccacc ttgagcactg atgctcagtg tcaatcgtgt tgcacccccg tcacttctct 60

actctgcaca ttttaagaac catgtttacc atggctgaaa aggggtgatc tctcagtact 120

gaatttgctt ctgtaagtgg tttctgatag cgtgctagct gttactgcmc ctatgggttg 180

ttcgtatggt ggcccttcgt gccagaggcg cattgaaatg cgtcacactt tgcattact 240

ctggacctta accagggaag tcttgattgc 270

<210> 10466

<211> 407

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-005-Q1-K1-F1

<400> 10466

tgattcgtat tctatctctt aaaaaagtaa ggcagaagat agctagattc atgatttggc 60

caatacaacc tcaaattaac ttgcctattc atcgattatg ttcaggaaat aatgtatcaa 120

ttaattgaag gaagtaatag tagtggctca tctagaactc attcgattcc tagttctaac 180

tatgaccact aacttttggc ttgctagctg gctatgtaca agcctgcaac acattcttat 240
gataccatca tgtcattaaa tgtcaagggc tgagtatccc cggacagcag ggccctcgact 300
acgcagttcg taatcgtgac ccattctctn ncgcgagatt atgcccctca ancacaagtt 360
ttgttggtga agtgagagga gagattagag agaataaact ttgctta 407

<210> 10467
<211> 424
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-005-Q1-K1-F10
<400> 10467

ggaggatgcg tgtgctgagg cgccttctcc gcaagtatcg tgaggccaag aagattgaca 60
agcacatgta tcatgacatg tacatgaagg tcaaaggtaa cgccttcaag aacaagaggg 120
tgcttatgga gagtatccac aagtccaagg ctgagaaggc cagagagaag acactttctg 180
accagtttga ggccaagcgc gccaagagca aggcgagccg tgagaggaag atcgctagga 240
gggaggagag gttggcccag ggtccacgag aaataacacc acctgtctca tccacagctc 300
cagctactgg ggcaccgaag aaagcaaaga agtgaagtat tgaaataaag ctgtagcttt 360
ctagtccagt actgcacttt cttttataag ctctagtcaa attttggagc gcctgaactg 420
tttt 424

<210> 10468
<211> 403
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-005-Q1-K1-F11
<400> 10468

cccacgcgtc cgggcgatgc ggcgcgactc ctatttcgtc tatgatgact gtgaagcgat 60
ggtcgcgtgg cccttcagcc acccaaattg gaaagccgc tgttcacatg gctagcgttg 120
acttgaaagg aaaagcatac gatgtgttga gacagaattc ttccagcttt ttgttggaag 180
atgtctacag aaaccaggc cgcctccagt ttgaaggacc aggtgccgat tcaaagccta 240
tttcattgtg cgttgaggat caagactata tgggcagaat aaaaaagttg caggaatact 300

tggagaaggt gaagaggatt gtgaagcctg ggtgctcgca ggatgttctt aaagcggcgc 360
tgagtgccat gtcttctgtg ccggaaacac tgaacatcat gac 403

<210> 10469
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-F12

<400> 10469

cacttttggtg aaccctgctc caccgttccg gtacttccga aagctaaagg agacgagcag 60
cctaaaaacc ctagcccccg aatcagatcc caccgcccgc cggaacgcgg aaccctgccc 120
~~acggcgcgcca tggagatgag cgatgeggag cggatgatct tcttcgagat ggcttgcaac 180~~
aactccgagg tcgcgtacga gcagaacccc aacgacgccg acaacttgac gcgatggggc 240
ggagcgctgc tggagctatc acagatgcgt aacggccccg acagcctcaa gtcctccaa 300
gatgcggaag ccaagctgga ggaggcactg caaattgatc ccaacaagtc tgatgcactc 360
tggtgctcgg gaaatgctca gacttctcat ggattcttca ctccagacac tgcaatggca 420
aatg 424

<210> 10470
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-F2

<400> 10470

ggtgggttgg cttctcctcc ccctccggtt cgggttcggg ttcgtgaggt tctccggggt 60
tcgggttcgt gggtgagcgg atcgagatgg cggcgtcgga tgttgagtac cgctgcttcg 120
tcggcggcct cgcttgggccc acggtcgacc actcccttca caacgccttc agcacctacg 180
gcgaggtcct cgagtccaag atcatcctcg atcgggagac gcagagggtcc cgcggcttcg 240
gcttcgtcac cttctccacg gaggaggcga tgcggaacgc catctagggc atgaacggca 300
aggagctgga cggccgcaac atcacgtca acgaggccca gtcccgcggc ggccgtggag 360
gcggcggcgg tgggtacagt ggtggccgtg gaggcggcgg ctacagcggg ggccggcgcc 420

gtgatggcgg tggcggtac ggcggtg

447

<210> 10471

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-F4

<400> 10471

gcgtctttac aacaaccaat ttcccagttg caacaacaat ccttggcaca tctaacaata 60

caaaccatcg caacgcata gcaacaacaa ttgctacaa cactgggcca cctagccatg 120

gtgaaccctt gcgactactt gcaacagcag ttgcttgcac cataccact tgctctggca 180

tacgtaattg caaaccatcc acacaaacag ctgcaacagt ttctggcagc gctcagtcaa 240

ctagccatgg tgaaccctgc cgactaccta catcagcacc aactgcttgc atttagcccg 300

ctc 303

<210> 10472

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-F5

<400> 10472

cggacgcgtg ggctgaggac aaagcgaaaa gaaaaaaaaa gggaaaagg gctggtgcgc 60

aaaaccctag cgcagtcgca tccatcatgg cgatgtccat cttcgtcggc ggcgactccg 120

gtgcgctcat cgcgcggtcc gcgtcctcgc tccgcccgcc gttccgtctt gccgctggtc 180

ccaagggcca tttttgtact tttcctcatg gagcatctag caatcacagc cggctatgtg 240

ttgaacatca aaggtgttct cgcagctcca ccagaacta tgctctttct aggaaggatt 300

tttctcctat aactcaagat gtggaaggct tccttcacaa tgttggttaac atggggtttc 360

ttgaccgtct gaaattagcg tggaagataa tgttttctgc accaaccaca aaggatacct 420

ccaatgcaaa catcgc 436

<210> 10473

<211> 411

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-005-Q1-K1-F6

 <400> 10473

 ccgacaccgc cagccacgtc aaggactacg cgcgcgagta cggcgggatac ctgcgcaccc 60
 gcgccaagga cgccgcgccc ggcgcgtagg cgcgcgccgt ccggcggtgca tgtgctgcaa 120
 cccccgtccg tgggtgccgt agctataggt catcattgct gtcgtcgctcg tcgtcttagt 180
 tcctcttgca ttgcgtgtgc gtactctgct ccaatcatcc cccgcccgtg ttgtcaagca 240
 atttctgggc ctcttgcttg ctttctctag gagatgctgt tcatttcgat ctcttggcgc 300
 aatttgatct ttcgcttggt gtaattaggt cattagttaa atcataagag actcgtgttc 360

 atggtctntc tcacaacctt aaaaaaaaaat gtaaatgga aaaaccacaa a 411

<210> 10474
 <211> 351
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-005-Q1-K1-F7

 <400> 10474

 ccgcgaagaa atctatgcta gaggagctcg aagcaatgct ggaggttgtg gaccctcagc 60
 cccaggggaa gcagcgatca ctgagccgca ggaaatttga tctcccagag ggtggagcca 120
 tccccgatga gaaaaccgct gctgtgaaca aagccatcag gatcatcgag gaaggcaagt 180
 gaagtgatgc accaccacct tgttactggc aggattgaat cctgatgaaa gtcctatc 240
 tatccgtgta tcgtctagga gaagtttata tccgtgtgct ttgctgacac tcgagggagg 300
 agaactaata tctgcacttt attgtacctt aaatgatagc catgttttta t 351

<210> 10475
 <211> 374
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-005-Q1-K1-F8

 <400> 10475

cgcaagtaaa tctatgctag aggagctcga tgcactgctg gagtggcgga ccctgaccc 60
gcatagaagc agcttatcac tgatccgtag gatgatccat cgctgaccag ttggtgcaca 120
tccccgatga gaactcacgg tgctgtgacc atagccatca tgatcatcga tgaaggcgac 180
gcgaagtgat gcaccgatac cgttttactg gcatgatcga atgctggcaa tgctgcatat 240
ctatccgtgt atcaactggg aggaactgat ctgccggtgc tttgccgaca cctcgggcca 300
gaaaagctgt agtcgcacat tattctgccc taaatgctgt ccatggcggtt attgacgtgg 360
gtacagtagg gctg 374

<210> 10476
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-F9

<400> 10476

ggtggccatc cagcccaagc aggtgtggaa ctggtttcag aacagacggt actcacaccg 60
ggccaaaact cccagggccg cgctgctacc gccggctaag atgacgccct cgggagctga 120
tcaccaccag catgccgcta acgcctccgc cttcagggct gctcagctct cttctgttgc 180
tgctgcgcac cacggttcct cctctacagg gaagaatcct gtggaaagtg tctcagttga 240
gtttgaggcc aagtcagctc gtgatgggtgc atggaggtgc gggttcgttt ttctggattt 300
ggggcagagg aggatgaatg gatcaat 327

<210> 10477
<211> 445
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-005-Q1-K1-G1

<400> 10477

agaaaaatgt cccactgatg acgcgggacg ccggagcgga agggagggcc caccatgtca 60
gcgcgcgcgc cgccgcgcgc gtttctgtcc tattctgctc ttctgcca tctgtgcgc 120
ccctcttctt catcccgctc ctagcagccg atcccaactc ccgatcttcg tttcctttga 180
ggtatgactc tgtttttagc tgttggggtg tataatcaat ttgggtgctg gctccttttt 240

ttaagcgttt ctgatagaga tgacggaggt gaaaaaatac tccagcataa ttggttcctt 300
gcttatggag tatttggttaa ttttgtacta tctaagcatc gaattccagg ctgtaacttt 360
tgctgcatcg ggcaaagtgt tttgatttgc tcgatagaac tgtcagttaa ggaaccacta 420
ngcgtcgta catactgtac gctcg 445

<210> 10478
<211> 438
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-005-Q1-K1-D2
<400> 10478

ggagaactcg acaccatgaa ggtgctgac gttgcccttg ctctcctggc gctcgctgcg 60
agcgccgctt ccagtacaag cggcggctgt ggctgccaga caccaccgtt tcctctaccg 120
cctccgttct atagccgcc tccgttctat ctgccgccgc agcagcagcc gcagccatgg 180
caatacccca ctcaaccacc gcagctaagc ccgtgccagc agttcggatc ctgcccgcgc 240
ggcagcgctc gcagcccgtt cctgggccag tgcgtcgagt tcctgaggca ccagtgcagc 300
ccggcggcga cgccttacgg ctgccacag tgccaggcgc tgcagcagca gtgctgccac 360
cagatcaggc aggtggagcc gctgcaccgg taccaggcga catcgggtgt ggtcctgcag 420
tcctttctgc agcagcag 438

<210> 10479
<211> 420
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-005-Q1-K1-D5
<400> 10479

ctccctgcta cgcgtagcca aggtcaccgg cggggctccc aacaagctct ccaagatcaa 60
ggttgtgctc acctccatcg cgcgctgtct gaccgtcatc tcgcagaagc agaagtcggc 120
gctgctgag gcgtacaaga agaagaagct gctcccgtc gacctccgcc ccaagaagac 180
ccgcgccatc cgcaggcgcc tcaccaagca ccagctctcc ttgaagaccg agagggaaaa 240
gaagcgtgag aagtatttcc ccatgaggaa gtacgtatc aaggcctaga tcagtgaaag 300

aacatttatc ctgtcaagtt ttgctcagaa gttacttgaa tttgagacaa atctatctcc 360
atccaagtag tatgtagctg atcaactgca tgatgaaaaa cgagtacttt ttgcttggtt 420

<210> 10480
<211> 440
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-005-Q1-K1-D6

<400> 10480

gctgctcaag aacctgatgg agtcgcagaa ggttgactac gattttgagt actacaagct 60
ggaaatggca gctgatgtgc agctactcac tctctctgag gggaaatcaa acatccttcc 120

ttcagatttg gtagtgcctt tccggccatc ctctgttccc acaattaatg caggtgctga 180
ggaaactgag agctggaggt ggtttttgac cacagtaagg tctcttcctc agtccactga 240
acctgaaact taccagatga ttcaggatga aatggtcagt gccatgcgtg atgataggag 300
cttgggttgt tctgaactta gcagatggct aacaatggca canataatgg cctncagctn 360
tggcgagaag agtctttctt tggagcactg gcagatgggtg aaggagcttg agaggcttag 420
aaagcagagg atgcaatgag 440

<210> 10481
<211> 415
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-005-Q1-K1-D7

<400> 10481

gaaggattga agcatgctgg tttgttttgg tttggttgt atgttccatt ccagtgcagc 60
gcggtggcgc agaacgagtg caacaacggc tgcgccggcg ggctgatgac gaacgcgtac 120
tcgtacctga tggagtcagg cggcctgatg gagcagagcg cgtacccgta cacggggcgcg 180
gcggggccct gccgttcga cccgaccag gtcgccgtcc gcgtggccaa cttcaccgcc 240
gtgccggccg gcgacgaggc ccagatccgc gcggcgctcg tccgccggcg gcccctcgcg 300
gtggggctca acgcggcggt catgcagacg tacgtgggcg gngtgtcgtg cctctctatc 360

tgcccgcgcg catgggtcaa ccacggcgtg ctctctgctg gctacggcgc gcgcg 415

<210> 10482

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-D8

<400> 10482

cagacacgta aggacgcggt gaaccctggc acctacttgc aacagcaatt gcttgcacgc 60

aaccacttg ctatggcgaa cgtaactgga taccagcaac aacaacagat gaaacagttc 120

atgccagtgc tcagacaact agccatgggtg aaccctgacg tctacctaca actactttca 180

tctagcccgc tcgcggtggg caatgcacct acgtacctac aacaacagct gctgcaacaa 240

attgtaccag ctctgactca gctagctgcg gcaaaccctg ctgcctactt acaacagttg 300

cttgcatcca accaactggc tgagtcaaac tctgctgcgt acctacaaca gcgacaacag 360

ttacttaatc cattggcagt ggctaaccga ttggctgcta ccttctctga gcagcaacaa 420

caattgctgc catacaacc 439

<210> 10483

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-D9

<400> 10483

ctgcagccct ccatccacga actcccgttc tccatttaca cccatggcgg tgctgatcga 60

gctcaccaag gagtacggct acgtcgtgct ggtgctgggt gcctatgtct tcctcaacct 120

ttggatgggc ttccaggteg gcaaggcccg cagaaactac aagggtgttct accccaccat 180

gtacgccatc gagtcggaga acaaggacgc caagctcttc aactgcgtgc agagggggca 240

ccagaactct ctagagtgga tgcccgtttt ctctgtcata ctgctgctgg gcggtctgca 300

gcacccgacc atcgcgcgcg gtctggggcg catctacatc gtcgcgaggt tcttctactt 360

caagggatac gccaccggcg ttccggacaa ccgtctcaag attggggggc t 411

<210> 10484
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-E10

<400> 10484

gtcgaccagc acattcgcta cttcctgcac gctgttgggc aatgttagaa caacgcagggc 60
ctcccagaca gcggtgaaga gcccttcgtc tctaagcttc ttcagccaag ttacgaaggt 120
tccaagcctg aagacctcca agaaactgga tgtctccgcc atggctgtat acaaggtgaa 180
gcttgtcggg cctgaaggtg aagagcacga gtttgatgct ccagacgacg cctacatcct 240
tgacgcagcc gagactgccg gtgtggagtt gccatactcg tgccgtgctg gggcttgctc 300
cacctgtgcc ggcaaatcg agtctgggtc gggtgaccag tcggatgggt ccttccttga 360
tgacgggcag caggaggaag gttatgtgct gacatgcgtc tcctacccaa agtccgac 418

<210> 10485
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-E11

<400> 10485

cggacgcgtg ggacaactac taccattcag ccagctagct ggtgtgagcc ctgctacctt 60
cttgacacaa ccacagttgt tgccgttcta ccagcacgct gcgcctaacg ctggcaccct 120
cttacaactg caacaattgc tgccattcaa ccaacttgct ttgacaaacc cagcagcatt 180
ctaccaacaa cccatcattg gtggtgccct cttttagatt tcttatgagt tatagttcaa 240
taataaagtt ttttgtctga tgtttgggc ttcccagaaa taagaaagta catttct 297

<210> 10486
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-E12

<400> 10486

cccacgcgtc cgcgcaaatt gcaccaagaa atccatcgag aggccgtcga caggggaatt 60

aatggcgctcg tcgtctagca gcagccaccg ccgcctcatc ctgcgagccg ccgtcctgct 120
ctccgtgctc gcgggtgcca gcgccagcgc cgggacctcc tgcgtgccgg ggtgggcat 180
cccgcaaac ccgtccccga gctgccgctg gtacgtgacc agccggacct gcggcatcgg 240
gccgcgcctc ccgtggccgg agctgaagag gagatgctgc cgggagctgg cggacatccc 300
ggcgtactgc cgggtgcacgg cgctgagcat cctcatggac ggcgcgatcc cggcggggccc 360
ggacgcgcag ctgga 375

<210> 10487
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-E2

<400> 10487

atcgttctcg tcgtgtgcct ggctctgtca gctgccagcg cctctgcaat gcagatgccc 60
tgccccctgcg cggggctgca gggcttgtag ggcgctggcg ccggcctgac gacgatgatg 120
ggcgccggcg ggctgtaccc ctacgcggag tacctgaggg agccgcagtg cagcccgtcg 180
gcggcgggcg cctactacgc cgggtgtggg cagccgagcg ccatgttcca gccgtccgg 240
caacagtgtc gccagcagca gatgaggatg atggacgtgc agtccgtcgc gcagcagctg 300
cagatgatga tgcagcttga gcgtgccgct gccgccagca gcagcctgta cgagccagct 360
ctgatgcagc agcagcagca gctgctggca gcccaaggtc tcaaccccat ggccatgatg 420
atggcgcgaga acatgccggc catgggt 447

<210> 10488
<211> 443
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-005-Q1-K1-E5

<400> 10488

gtgctacctc tgatcaacca agtagctctg gcaaaccctt ctccctactc tcagcaacaa 60
caattttcttc cattcaacca actgtctaca ctgaaccctg ctgcttattt gcagcaacaa 120

ctattaccat ttagccagct agctactgcc tactctcagc aacaacaact tcttccattt 180
aaccaattgg ccgcaactgaa ccccgctgct tatttgagc agcaaatact actaccattt 240
agccagctag ctgcagcaaa cegtgttcc ttcttgacac agcaacagtt gctgcctttc 300
taccagcagt ttgcggctaa ccccgcaacc ctcttacaac tacaacaatt gttgcccttt 360
gtccaacttg ctttgacaga cccagcggcc tntaccaac aacacatcat tgggtggtgcc 420
ctctttttaga ttgcttatta gtt 443

<210> 10489

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-E6 .

<400> 10489

cccacgcgtc cggccatctt cttcgtcgac aagcagggga gttaggtctc acatgcatgc 60
ttcatcacat tggtgactgc ataacgaaac acatcgtcgt cggatcggag atgatgagtt 120
ccgtcgtcgt ggatgctgct gctaccagca gcagcgagaa gaagacgtcg tggccggagg 180
tgggtgggcat gtccatcaag gaggcgacgg agactattct caaggacatg cccaacgcgt 240
acatccaggt gctgcctggt gggtcgcccc tgacgctgga ccttcgcccc gaccgcgtcc 300
gtatcttcgt tgacaccgtc gccatgactc cgacagttgg gtgatacata ccaaagtcaa 360
taaacaaacc ctactttata ttttatgttt ccagttaata ataaaccagg ccttagcttc 420
ttggttggtcc ttgcttggtt ggtg 444

<210> 10490

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-E7

<400> 10490

catagaaagt ggaatacagt agcaacaata gagcaacaat ggcggcaaag atattttcca 60
tccttatgct ccttgctctt tcttcatgtg ttctaacgc gaccattttt cctccatact 120
cacaagctcc tatagctgcc cttcttcttc cataccttc ataactgacc gcttcagtat 180

gtgaaaaccc agcccttcaa ccttataggc tccaacaagc aatcgcaaca aacaacttac 240
ctttatcaca cctgttcttt caacaatcgc cagccctatc tttggtgcag tcattggtac 300
aaaccatcag ggcacaacag ctgcaacaac tcgtgctacc agtgatcagc taagtagctc 360
tagcaaacct ttctccctac tctcagcaac aacaatttct tccattcaac caactgtcta 420
cactg 425

<210> 10491
<211> 412
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-005-Q1-K1-D12
<400> 10491

agtggctcca acaatccacc ggctccttcc cagcgcggcg ccaccggcga cccgtacccc 60
cttccccgga gagcgatggc gacggatctg acggctgctc atctgcgcgc gtacgacggt 120
accgaccctt tcaagcgcac ctacgtcttc gtccggcgca tgggtctacga cgtcacctac 180
ggccgcgggt tctacggccc cgggggcgcc tacgccgtct tcgcggacct ggaggccagc 240
cgcgccctcg gcaagatgtc caatgacgaa gccgacgtct ccggggacct ctgcgggctc 300
accgtcaatg agctcggcgt gctcgtcgac tgggagatca agttccaggc caagtacccc 360
gtatgtttcc gactctcgt cgactcctga actcgtcggc ctagggctaa at 412

<210> 10492
<211> 353
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3059-005-Q1-K1-B8
<400> 10492

gccattctgg gaatggatga gctcagtga gatgacaagt tgacagttgc tcgtgctagg 60
aagattcagc ggttccttag ccagcctttc catgttgctg aagttttcac gggcgcacct 120
ggaaagtacg ttgagctgaa ggagagtgtt aaaagtttcc agggcgtttt ggatggcaag 180
tatgatgacc ttccagaaca gtcattctac atggttggag gaatagagga ggtcatcgcc 240
aaggcagaga agattgccaa ggaatctgca tcataagggg tctacaggca acgcanaatt 300

aacttttggga ggtcaacgtg atgtgctttt tctcctgtgt tatcaagaac tta 353

<210> 10493
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-B9

<400> 10493

caagaagaac gtggtcgaga tgcccggcaa tggcgacgtg cccttcaccc acgccaacat 60

cacctcgcc aggcagcagc tcgggtacaa gccaccacc aacctcgatg tcggcctcaa 120

gaagttcgtc aagtgggtacc agtcctacta cggctacacc aggggatcca agaactcgcg 180

acaatgatcc atgctaattc ttcctttctt ctttctcgct ttggcccggc cgcggccacc 240

cactctcgga tcaaacattg acattcttat caggattttt ttggtggaaa tatgttatgt 300

taaggtgttc ctttattaag tagagaaata ccggggacaa attctttgct tgggga 356

<210> 10494
<211> 391
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-005-Q1-K1-C1

<400> 10494

tacaacagca acaactgctt tcatctagcc cgctcgctgt ggccaatgca cctacatacc 60

tgcaacaaga attggtgcaa cagattgtac cagctctaaa ctaactagct gtggcaaacc 120

ctggttgcta cttgcaacaa ctggtttcat ttaaccaact aactatgtga aacttggtgg 180

tcctacacaa ggccacagta ctaaactcat gcagtggtga acccattggt cgctgccttn 240

ctacagcagc aacaattgct gccatacaac cggttctctt tgatgaatcc tgtcttgctg 300

aggcagcaac ccatcggttg aggtgccatc ttttagatta catatgagat gtactcgata 360

atggtgcctt cataccggca tgtgtttcct a 391

<210> 10495
<211> 421
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-C10

<400> 10495

cgacgcgtg ggtttcacct attatattcc atgaaagcgt catgattgca gttgctcgtg 60
gtgataacac tggggaatca attcctatgc tcctaaggat accccgcttc tttgatccat 120
ggggtggtta tgatatgata ggctttggtg acattatctt ccctggattg cttgttggat 180
tcagctatag atttgacaga gcaaacagaa aggggtgtctt gagtggatat tgtctctggc 240
taattgtggg atatgcagtt ggccttttca ttacgtatct tgcgctgttc ttgatggacg 300
ggcatggtca acctgcgttg ttgtaccttg tgccatgtac attggggggtt attggtattc 360
ttggttggtt aagaggtgag ctttatgaat tatggaactt cggaaaaagt ccaggagaaa 420

a

421

<210> 10496

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-C2

<400> 10496

gtcgtctcca tgagctttca aacaagcgaa ggatctctat tgctggtgct tccaaactgt 60
tggctaacat cctttattca tatcgtggga tgggactgtc gattggtaca atgatcgctg 120
gatgggatga gaagggtcct ggcttgact atgttgacag tgagggtgcg cggctcgtgg 180
ggaacagggt ctctgttggc tctggttcac tgtatgctta tggatcttg gatgatggtt 240
accgcttcag catgtcagtt gaggaagcag ccgaattagc gcgacgggct atttatgggg 300
caacattccg tgatgcagca agtgggtggt gtgtagtgt ttaccacgtt ggccctgatg 360
gttggacgaa gctttctggg gatgatgtcg gagagctgca ctaccactac taccgggttc 420
agaaaactcc ggttgaacag g 441

<210> 10497

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-C5

<400> 10497

cccacgcgtc cgccacgcg tccggcacct acagcaaagt gctttttgag gagatttgct 60
cgtgctgcac aagcgtgtga tgaggatcct gctttgcatc tggagtctct cgccaattac 120
atcgtcgagc tatcactact ggagtacagt ctactctctt accctccatc actaatagct 180
gcatcggcta ttttcttggc gagatttata ctacagccaa caaagtatcc ttggaattcc 240
acactcgtc attacacaca gtacaaaccg tccaaactga gcgaatgtgt aaaggcattg 300
catcgccctt gcagcgttgg ttctggtagc aaccttcag caatcagaga aaagtacagt 360
caacataagt acaaatttgt tgcaaagaag cagtgtccac cgcagatccc tactgaattc 420
tttcgggacg cgacatgcta ga 442

<210> 10498

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-C6

<400> 10498

cggatcgaga tggcggcgtc ggatgttgag taccgctgct tcgtcggcgg cctcgcttgg 60
gccacggacg accactccct ccacaacgcc ttcagcacct acggcgaggt cctcgagtcc 120
aagatcatcc tcgatcggga gacgcagagg tcccgcggct tcggcttcgt caccttctcc 180
acggaggagg cgatgcgga cgccatcgag ggcataaac gcaaggagct ggacggccgc 240
aacatcacgg tcaacgaggc ccagtccgc ggcgccgtg gaggcgccgg cggcggtac 300
ggtggtggcc gtggaggcgg cggctacggc ggtggcgggc gccgtgatgg cggcgccggc 360
tacggcgggtg gcggcgccgg ctacgggtggc ggcggtggct acggtggtgg tggcgccggc 420
tacggcgggtg gcaaccgtgg cgg 443

<210> 10499

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-C7

<400> 10499

cggacgcgtg ggcgactcac aagcacatca aggctcgtc gctcgcacac accaagcaag 60
caggccgcag cccgcaggcg tctcacaggc tctccgccgt tccccaacgc gctttccccg 120
gcgccatggc caggctggcg ctacgctcc tctgctgct ggccgtggcg gcatccgcgt 180
gggccggcgc cggcgcgagc cacctcgatc tgggcctggg ctctctctcc tccggggacc 240
gccggcgggg atgccgcggc acggtggccg agtgcctgga cgaggaggag ggccctggacc 300
tggggggcgg gcccgcgtcc gtggagtccc accgccgcgc gctctacggc ggcgggcgcg 360
gcggcgggta catcagctac ggcgcgctgc ggcgggacaa cgtgccctgc taccgccgcg 420
gtgccagcta ctacaactgc c 441

<210> 10500

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-C9

<400> 10500

ggcttatctg tatgatggtt actgggaaga tatcgggtacc attgcggcat tttataatgc 60
aaacttggga ataaccaaga agccaatgcc agatttcagc ttctatgacc gttttgctcc 120
aattttataca caacctcgac acctgccacc ttcaaagggt cttgatgctg atgtgacaga 180
cagtgttatt ggtgaaggat gtgttattaa aaactgcaag ataaaccatt ctgtagttgg 240
actccgatct tgcatatctg aagggtgctat catagaggac agtttactaa tgggtgcgga 300
ctactatgag acagaagctg ataaaaaact cttgccgaa aaaggtggca ttcctattgg 360
tattgggaaa aattcatgca tcaggagagc aatcattgac aagaatgctc gaattgga 418

<210> 10501

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-D10

<400> 10501

cggacgcgtg ggcgcaaatt gcaccaagaa atccatcgag aggccgtcga caggggaatt 60

aatggcgctcg tcgtctagca gcagccaccg ccgcctcatc ctgcagccg ccgtcctgct 120
 ctccgtgctc gcggctgcca gcgccagcgc cgggacctcc tgcgtgccgg ggtgggcat 180
 cccgcacaac ccgtccccga gctgccgctg gtacgtgacc agccggacct gcggcatcgg 240
 gccgcgcctc ccgtggccgg agctgaagag gagatgctgc cgggagctgg cggacatccc 300
 ggcgtactgc cggtgcacgg cgtgagcat cctcatggac ggcgcgatcc cgccggggccc 360
 ggacgcgcag ctggagggcc gtctagagga cctgccgggc tgcccgcggg aggtgcagag 420

<210> 10502
 <211> 363
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-D11

<400> 10502
 agtggctcca acaatccacc ggcaccaacc cagcgcgggc ccaccggcga cccgtacccc 60
 ctcccccgga gagcgatggc gacggagctg acggcggctc atctgcgcgc gtacgacggc 120
 accgaccgt tcaagcccat ctacgtctcc gtccggggca aggtctacga cgtcacctgc 180
 ggccgcgggt tctacggccc cggcggcgcc tacgccgtct tcgcggggccg cgaggccagc 240
 cgcgccctcg gcaagatgtc caaggacgaa gccgacgtct ccggggacct gtccgggctc 300
 accgacaagg agctcggcgt tctcgccgac tgggagatca agttccaggc caagttcccc 360
 gtc 363

<210> 10503
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-B7

<400> 10503
 accaattgca acaacaatcc ttggcacatc taaccataca aaccatcgca acacaacagc 60
 aacaacagtt cctaccagca ctgagccaac tagatgtggt gaaccctgtc gcctacttgc 120
 aacagcaggt gcttgcaccc aaccacttg ctctggcaaa cgtagctgca taccaacaac 180
 aacaacaatt gcaacagttt ctgccagcgc tcagtcaact agccatggtg aaccctgccg 240

cctacctaca acagcaacaa ctgctttcat ctagccctct cgttgtgggt aatgcaccta 300
 catacctgca acaacaattg ctgcaacaga ttgtaccagc tctgactcag ctagctgtgg 360
 caaacctgc tgctacttg caacagctgc ttccattcaa ccaactgact gtgtcgaact 420
 ctgctgcgta cctacaacag c 441

<210> 10504
 <211> 435
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-004-Q1-K1-H7
 <400> 10504

atccagatca gcaaagcggc agtgcgtaga gaggatcgtc gaacagaaca gcatgaagat 60
 ggtcatcggt ctcgtcgtgt gcctggctct gtcagctgcc agcgctcttg caatgcagat 120
 gccctgcccc tgcgcggggc tgcagggctt gtacggcgct ggcgccggcc tgacgacgat 180
 gatgggcgcc ggcgggctgt acccctacgc ggagtacctg aggcagccgc agtgcagccc 240
 gctggcgggc ggcgcctact acgcgggtg tgggcagccg agcgccatgt tccagccgct 300
 ccggcaacag tgctgccagc agcagatgag gatgatggac gtgcagtccg tcgcgcagca 360
 gctgcagatg atgatgcagc tngagcgtgc cgctgccgnc agcagcagcc tgtacgagcc 420
 agctctgatg cagca 435

<210> 10505
 <211> 282
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-004-Q1-K1-H9
 <400> 10505

cggacgcgtg ggaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg ggaaaaaata ataaagtaga 180
 aaaaaaaaag aatagaagga agaaaaataa attagtattg aattaaagat attaaaaaga 240
 aaattaagag taaatgatta aaaaaagtga aggaatgaaa aa 282

<210> 10506
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-A10

<400> 10506

cggacgcgtg ggcggacgcg tgggcggacg cgtgggcgga cgcgtgggct cagttttcat 60
gaaaggttct atggatcacg cggaagggac gagagcagat caaacaatga tggattccgt 120
gctaggagca gaagtccctg caagcctgtg gaagtttcca actggtgatt gcatccacta 180
ggtgcaatcc aatttttgcg atggtgacga aaccaagtaa aagatggtag ctgcacaagt 240
tataattttcc tcttatectg cttaaactca aggatgtcct ggaacatcac taacttagga 300
tatgggtgat ggtctgatcc caatggacaa tgggtctcta ctttcttgat ttgacgcctg 360
agagacgcct gattccatac catatgc 387

<210> 10507
<211> 276
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-A12

<400> 10507

cccgatcgac accatgaggg tgttgctcgt tgcctcgtc ctctgggctc tcgctgcgag 60
cgccacctac acgcatacaa ggggcggctg eggctgtcag ccaccgccgc cggttcatat 120
accgacgccg gcgcattctgc cacctgcggt tcacctgcca cctacggtgc atctaccacc 180
gccgggtccac ctgccgccgc cgggtccacct gccaccgacg gtcgcatgtg ccgccgccgg 240
ttcatatgcc gacgacacca tgccactacc ctactc 276

<210> 10508
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-A5

<400> 10508

gggcacaaca actacaacaa cttgtgctag caaaccttgc tgcatactct cagcaacatc 60
 agtttcttcc attcaaccaa ctggctgcat tgaactctgc tgcttatttg caacaacaat 120
 taccattcag ccagctagtt gctgcctacc cccagcaatt tcttccattc aaccaactag 180
 cagcattgaa ctctgctgct tatttacagc agcaacaact actaccattc agccagctag 240
 ctgatgtgag ccctgctgcc ttcttgacac aacaacagtt gttgccgttc tacctgcacg 300
 ctatgcctaa cgctggcacc ctcttacaac tgcaacaatt gctgccattc aaccaacttg 360
 ctttgacaaa ctcaacagtg ttctaccaac aacctcatcat tgggtggtgcc ctctttttaga 420
 ttgcttatga gttata 436

<210> 10509
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-005-Q1-K1-A9

 <400> 10509

cagcagcgag tgcaaccgag agagcgatca gcgatgggct ccttcttctc gaccttagtg 60
 acgccccctc cggccgcca cgaccgaac tgcgccgtgg tggccgcca ctccaaggcc 120
 acctacgacg agcagtgggc ggcccacaag agcagcagca agctgatggt gatcgacttc 180
 tcggcgctct ggtgcgggcc ctgccgttc atcgagccgg cttcaagga gctggccttc 240
 cgcttcaccg atgccatctt cgtcaagggt gacgtcgacg agctcgcgga ggtcgcaagg 300
 acatggaagg tagaggcgat gccaacgttc gtgctggtca aggatgggaa ggaggtaggc 360
 cgtgtgattg gngctaagaa ggacgagctt gagaggaaga tcaggatgtt cgtcacgt 418

<210> 10510
 <211> 375
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-005-Q1-K1-B12

 <400> 10510

caactagcaa catagaaagc acaatagtgt accaacaatg gcagccaaaa tattttgcct 60

ccttatagct ccttgggtctt tctgcaagtg ctgctacggc gaccattttc ccacaatgct 120
 cacaagctcc tatagcttcc cttcttcccc cgtacctgtc accagcgggtg tcttctgtat 180
 gtgaaaaccc aattcttcaa ccctatagga tccaacaggc aatcgagct gccatcttac 240
 ctttatcacc cttgttcttc caacaatcat cagccctatt acagcagtta cttttggcgc 300
 atctattggc aaaaaacatc agggcacaac aactacaaca actcgtgcta gcaaaccttg 360
 ctgcctactc tcagc 375

<210> 10511
 <211> 405
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-004-Q1-K1-H6

<400> 10511
 cccacgcgtc cgcccacgcg tccgcagcta gctctagcaa agcacttgcc atctaccgac 60
 cgccgcattc caaacagccc gacgagctag cagagcggca ggcacctccc tcttcaagga 120
 acatggcccc catgcagcag ttggcagtgg cgacggcggc cgtggtggcc ttggtgctgc 180
 tggcggcggc gacctcggag gcggccatca gctgcgggca ggtggcgtcg gccatcgcg 240
 cctgcatctg ctacgcgcgc ggccagggct cggggccctc cgccggctgc tgcagcggcg 300
 tcaggagcct caacaacgcc gcccgcacca ccgccgaccg ccgcgccgtc tgtaactgcc 360
 tcaagaacgc cgtcgccggc gtcagcgggc tcaacgccgg caacg 405

<210> 10512
 <211> 248
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-005-Q1-K1-B5

<400> 10512
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg 120
 gggggctttt aaaaggaaaa aagtttaaat aggaattaat ggaaagtaaa aaatttttaa 180
 tgggggttaa aaaaatcaat ttaagggccg ttgtttaaaa aagttttaaa tggaaaaaac 240

ttgggggtt

248

<210> 10513

<211> 192

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-G12

<400> 10513

tcccgggtcga ccagcggttcg ttctgcgttc gagagaacta ttctgtgtgt tgagcgaatc 60

atgtgaaatg gaaagtattg aactatagaa gagccagcat gcatttatga ggagtatgat 120

gacatctata atcttgcgtt gcttcaagta tcatcatgat ggattactgc tagtttgcta 180

ttgttgcatt ta 192

<210> 10514

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-G2

<400> 10514

atcttgagca aaaatatgaa ttcattgacat ctgatcacca gtatatttcc cggaaacatg 60

aggaggataa ggtgattgtg ttcgaaaagg gagatttgggt atttgtgttc aacttccact 120

gcaacaacag ctattttgac taccgtattg gttgtcgaaa gcctgggggtg tataaagtgg 180

tcttggactc cgacgctgga ctatttgggtg gatttagcag gatccatcac gcatccgagc 240

acttcatcgt cgactgttcg catgataata ggccatattc attcttgggtt tatacaccaa 300

gctgaacatg tgtcggctat tctccagttg agtgatagcg gtgtac 346

<210> 10515

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-G3

<400> 10515

gaggagacta cctacggcca tggcgaggag aaggcttctc gcgctcgctt tccggctcta 60

ctggaggcct tacgcgacgc atccgtggcg gcgacccccg ccccggtttc tgcctcagc 120
 tgcgtccggc accctcgatc acctgaagtc gccgcctttc gcgcgtccgg ctgcccggaa 180
 ccccgctgc tatccatggg atcgattctg aggacggcag aagaggacca tgttcattgca 240
 gacacagtcg accccgaacc cgcagtcact catgttctat cctggaaagc cagttatgga 300
 gattgggagc tctgatttcc ctaatgctcg gactgcgatg acatccgcta tggctaagtc 360
 gctttctgct attgatggag taaccagtgt attctctgga tctgattttg taactgttac 420
 agaatcag 428

<210> 10516
 <211> 362
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-G4

<400> 10516

gtggagacta cctacggcca tggcgaggta tattgcttct ggcgctcgcc taccggctct 60
 actggaggcc ttacgcgacg catccgtcgc ggcgaccccc gcccggttt ctctcctcag 120
 ctgtgtccgg caccctggat cacctgaagt cgccaccttt cgcgctcct gctgcccgga 180
 accctgccta ctatccatgg tatcgatcct gaggacggca taagaggacc ctgttcattc 240
 atacacactt gaccacgcac ccgctttcac tcatgttcta tcccggatag ccagctatgg 300
 agattggtag ctctgatttc cctaatgctc ggactgcagg gacatctgct tcggctaagt 360
 ct 362

<210> 10517
 <211> 438
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-004-Q1-K1-G5

<400> 10517

gcaggatttg actgtgacta taatttgtac ccagataaag atgccagta tcatttcttc 60
 aggaattatc tgcaccctga tagacctagt gaggtatgtg aaacaaaacc aattgaaatc 120
 tattcttgga attcaagttc tttctgaagt aaatgaagct ttctgttagt acctactcta 180

tgtaatatat atttgacgct atgagtagtt ccattcttgc ttgtttttta tgaagttagt 240
aatacctcca tatgtgccac atgtgtttga cattttgagc gttgttaagc tttttttctg 300
aacaaacata ggaggtctgc gtgccatttc attaacgccc cgtttggatc actggaattg 360
aattccattc taataataat aatttaagca tatatcaatt aagctaattc attnttatac 420
aaaatatatt tgtatact 438

<210> 10518
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-G6

<400> 10518

cccacgcgtc cgagaaagg tagcacgaac atgggggaca actgcacctg gattacctta 60
tgtcgaggag gcaattacca atgctggtga ctggttggtt ggtggggact tggaggttat 120
agaaccaatc aagtacaatg atggtctaga tcagtatcgc ctgtctccag cacagctgcg 180
tgaagagttt gccaggcgca atgctgatgc agtatttgcc tttcagcttc gcaatcctgt 240
acacaatggg catgctcttc ttatgaccga cacacgcaaa cgtctccttg agatgggtta 300
taaaaaccct gttcttctgc tccatccact gggaagattc acaaaagcag atgatgtgcc 360
tcttagttgg agaatgaaac aacatga 387

<210> 10519
<211> 425
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-004-Q1-K1-G7

<400> 10519

cggtagccgg cgggggcgga ggaggaaagc aggcaggcca tggcgtcgtc gtcgctgacc 60
ccggcgggccg tccgcgagat gcagaaggat ctcgagggtcc aggccaacgc cctcagcaag 120
atccagaaag acatcgccaa gaaccaccag gtccgcaagc agtacaccat ccaggtcggc 180
gagaacgagc tcgtcctcaa ggagctggag ctgctcagcg atggggccaa cgtgtacaag 240

ctcatcggac cgggtgctggt caagcaggac ctccgaggagg ccaaggccaa cgtcaagaag 300
 cgcacgagtg acatctccgc agagctgaag cggatggatc gggcgctcaa agacttggag 360
 gaaaagcaaa acagcaagaa ggaatcgata ttcaagttgc agcagaggat gcangctgta 420
 caagc 425

<210> 10520

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-G8

<400> 10520

ctgcgcctct acattttcttc tctctctgct cctccgcctc cgcctgatcc atccaagaca 60
 gggatcgcca tgtcggactc ggaggagcac cacttcgaat cgaaggccga cgctggggcg 120
 tccaagacct acccgcagca ggctggcacc gtccgtaaga acggcttcat cgtcatcaag 180
 aaccgtccct gcaaggttgt ggaggtttct acctccaaga ctggtaagca tggccacgcc 240
 aaatgccact ttgtcgccat agacatattc aatgggaaaa agcttgaaga tattgttcct 300
 tcatcacaca actgtgacat tccgcatgtg aaccgtactg agtatcagct gattgatatt 360
 tctgaggatg gatttgtgag ctttcttact tcagatggca aactaagga tgatcttaga 420
 ctcccaactg atgagactct t 441

<210> 10521

<211> 276

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-G9

<400> 10521

cccacgcgtt cgccagaatc tgagctccta caaggataag aaatttgtgg acattagcag 60
 ggaagatttg gacttaggtg atagcaatga ggaaagagag gagataaagc agcagttcag 120
 ccaaacctgt gattggataa agaatcgctt gggtgacaag gttgcacgtg ttggcatatc 180
 taatcgtctg aggtcatcgc catgtggttc agttgcagcg aagattgggt ggatagccta 240
 tattgaaagg ctaatgagag cacagactat gtgtga 276

<210> 10522
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-H1

<400> 10522

cccacgcgtc cgcggacgcg tgggcaccaa cgacaagggc cgtctctcca aggaggagat 60
 cgagaagatg gttcaggacg ctgagaagta caagtctgag gatgaggagc acaagaagaa 120
 ggtggaggcc aagaactcgc tggagaacta ctctacaac atgcgcaaca cgatcaagga 180
 cgagaagatt gcgtccaagc tgccggccga tgacaagaag aagatcgagg acgccatcga 240
 cgcggccatc agctggctgg acgccaacca gctcgccgag gcggacgagt tgcaggacaa 300
 gatgaaggag ctggagagcc tctgcaaccc catcatcgcc aagatgtacc agggcgcggg 360
 tgaagacatg ggcggcgctg gcggcatgga cgaggacgcc cctgccggca gcgg 414

<210> 10523
 <211> 390
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-004-Q1-K1-H11

<400> 10523

ctcatttttaa ctccaccact ccattgtcca ttctccctgg ctgcctctcg ttgctgttgt 60
 tgttgctgct cttctctagc ttgctttccc ccaattggcc tctctgcact cttgagcttc 120
 tttgccttgt tggacttggg agctgtggcg ttgccgaaat gggcgctccc taccacctnc 180
 aatcaccaag aaccatcata accaaggtaa tgagcatgaa gcagctgcca ccggccctgc 240
 cacagctgcc gtcgtcgccg gtggatcagt ccgaggtgac cgagcagaca tccgtgctgc 300
 cacggctgca gccggtggat ccaccacga taaccaggca gccacaggcg ccccggcagc 360
 cagcgcggtc gccttccaag gtaatcctgc 390

<210> 10524
 <211> 340
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-H12

<400> 10524

ttcctgcaag tgctgctacg gccaccattt tcccgcaatg ctcacaagct cctatagctt 60
cccttcttcc cccgtacctc tcaccagcgg tgtcttcggt atgtgaaaac ccaattcttc 120
aaccctacag gatccaacag gcaatcgcag ctggcatctt acctttatca cccttggtcc 180
tccaacaatc atcagcccta ttacagcagt tacctttggt gcatttattg gcacaaaaca 240
tcagggcaca tcaactacaa caacttggtg tagcaaacct tgctgcctac tctcagcaac 300
agcagtttct tccattcaac caactagctg cattgaactc 340

<210> 10525

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-H3

<400> 10525

aacatacctt tatcaccctt gttgtttcaa caatcgccag ccctatcttt ggtgcagtca 60
ttggtacaaa ccatcagggc acagcagctg cagcaactcg tgctacctgt gatcaaccaa 120
gtagctctgg caaacctttc tccctactct cagcaacaac aatttcttcc attcaaccaa 180
ctgtctacac tgaaccctgc tgcttatttg cagcaacaac tattaccatt cagccagcta 240
gctactgcct actctcagca acaacaactt cttccattta accaattggc cgcactgaac 300
cccgtgctt atttgcagca gcaaatacta ctaccattta gccagctagc tgcagcaaac 360
cgtgcttctt tcttgacaca gcaacagttg ctgcctttct accagcagtt tgcggctaac 420
cccgcaaccc tcttacaact ac 442

<210> 10526

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-G11

<400> 10526

cttacgctct tgccacgcac ctttcaccag tggtgacttc agtatgtgaa aaccaattc 60

ttcaacccta caggatccaa catgctattg catcaggcat cttaccttta tcacccttgt 120
tccccaaca atcatcatcc ctattacagc agttaccttt ggtgcattta ttggcacaaa 180
acatcacggc tcaacatctc gtgctagcaa accttgctgc ctactctcag ctacaacagt 240
tacctttggt gcatttggtg gcacaaaaca tcagggcaca acatctacaa catctcgtgc 300
tagcaaacct tgctgcctac tctcagcaac atcagtttct gccattcaac caactagctg 360
cattgaactc tgctgcttat ttgcaacatc aactagtact accatt 406

<210> 10527
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-E3

<400> 10527
cccacgcgtt cgctggccat cgcaatcccc agcatctgga cgctcttcga gtactccggg 60
tccacgttcg cggtcacat ctcgttgatc ttccctggcg ccatagttct cagggatggt 120
catggaatag cgaagcgcaa ggacaaggca ttggcggcaa cgatgatcgt tctggcagtg 180
gtcacgagca gcacgccat tgctcgaac atcatgagct ccatcagtga cgaagacaga 240
agaggatcatg tagctggtag acgataatgg ctcaaactga atcaaattaa aatgtgggtt 300
ccaggccaac cgcgcgtgaa gattgctgct cgtgtcatgc gttcctactg ggtattcttt 360
ctttgcagcg agattgcttt ggcccctgag atgcaagttt agtctgtgcc cctcatggt 420
gtagatgttt gt 432

<210> 10528
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-E5

<400> 10528
cccacgcgtc cgattgaacc gtgctgctta cttgcagcag ctactattac cattcagaca 60
gatagctact gcctactctc aacaacaaca acttattaca tttaaccaat tggccgcact 120
gaaccccgct gattatgtgc agcaacagat actactacca tgtagccagc tagctgcac 180

aagccgcgct tcctttcttga cacaggagca gacgctgcct ttctaccagc aggttgccggc 240
 taacctcacg accatttttac aactactaca atagctgccc tgtgtccaac ttgctttgac 300
 aaaccgagta gcctgctacc aacagcacat cattgggtggc gccctattga agactgctta 360
 ttagatgtaa ctcactactc aagtcttttg gatgatgtat g 401

<210> 10529

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-E8

<400> 10529

cgcaaattgc accaagaaat ccacgagag gccgtcgaca ggggaattaa tggcgtcgtc 60
 gtctagcagc agccaccgcc gcctcaccct cgcagccgcc gtctgtctct ccgtgctcgc 120
 ggctgccagc gccagcgccg ggacctcctg cgtgccgggg tgggccatcc cgcacaaccc 180
 gctcccgagc tgccgctggc acgtgaccag ccggacctgc ggcatcgggc cgcgcctccc 240
 gtggccggag ctgaagagga gatgctgccg ggagctggcg gacatcccgc cgtactgccg 300
 gtgcacggcg ctgagcatcc tcattggacg cgcgatcccg ccgggcccgc acgcgcagct 360
 ggagggccgt ctagaggacc tgccgggctg cccgcgggag gtgcagaggg g 411

<210> 10530

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-E9

<400> 10530

gaccgctcct gagtacgttc acgaggaaga agctcaacaa atagcacctg aagtacatga 60
 tgtggtcgaa aactatactt attctgagcc acaacagcaa gtagtgtcgg acaactgggg 120
 agaggagcct ctctctgaag aaccgccttc tttctcaaat gaaatggcag tcgctcctga 180
 ggagccagtg caagctccac ctgtgccact tcctcacgtg gatgagcctg tttgtgaacc 240
 agtaaagaag acttatgctt ccaccctaaa aaccgcaaag gctcctgcat tcccagtagc 300
 ccagcaagta cctgtgagta agccttctca ccctacaaca gagtc 345

<210> 10531
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-F1

<400> 10531

cccacgcgtc cgggctgggg tacacatggg cattctgtac cagcgggtgga aggcgccggc 60
gacgatgacg aaccagtgtg tggtattatt attagaagac aacgttgat ttctgtagct 120
gaattgttga gttgcggata tcattgtgct gctaaggtta atgtgacgat aaagttaatg 180
tcaagagtta ccttccttcg cgtgtatgta ctctgattat tcaggctgtt tttggctggg 240
attaatctgg tcttatctga attccctatc tgaaatagag aattgttcgg tgtgcatttt 300
gtgaccaata aatattttta atattttatt tttttattta atatttaaaa aagggcggtc 360
gtttttgagg ttccaagctt tctttctctt tcatgctact tattagctct ttttagtggt 420
tacttaaatt taatt 435

<210> 10532
<211> 198
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-F10

<400> 10532

acacacaatt tctaagtccc atgtgttctt ttggcgctta ttggattagt gaatgctttc 60
cgtcaagggtt tgagaatcga ttcagtgtcc tgcacatatt catatgatac ttgctattgg 120
gagtatgatt ttcatgccac cttgcaactt gtcctacaac agagtgcgtg actccaatgg 180
tctgggagat cctcttta 198

<210> 10533
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-F11

<400> 10533

attggccgaa cctgaaaggc gaacgggttc gattggcatc ttattggtga agactatgca 60
gcgggggtcg ggttggcctt gagcctcca aattggaaag cccgctgttt acatggctag 120
cgttgacatt gaaaggaaaa gcatacgatg ctccgacaca aaaactgcat cagctttgtg 180
ttggaagatg tctacagaaa cccatgcccc ctgcatgtag aaggaccagg tgccgattca 240
aagcctatct cattgggcgt ttgagatcaa gactatatgg gcagaataaa aaagtttgca 300
gaatacttgg agaaggtgaa aaggattgtg aagcctgtgt gctcgcagga tgttcttaaa 360
actgcgctga atgccatggc ttctgtgacg gaaacactgg acatcatgga cttcatc 417

<210> 10534
<211> 72
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-F12

<400> 10534

ctgaggagga gctggaccga gccacaattt gtttcgcgcg tgactagata cagaagcaca 60
ggggcacaga tg 72

<210> 10535
<211> 256
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-F3

<400> 10535

cccacgcgtc cgcccacgcg tacggattgt gcttgtgggc tagctttgct tctgataatc 60
atagctttct gcaaaaaaaaa aaaaaatata aaaacaaaat aacaaaataa aaaaaaaaaa 120
acaaaaaata aaaaaaaaaa aaaaaagaaa caaaaaaaga taatatgcta aaaacacaaa 180
aacataaaaa tagaagatgc aaaaaaaagg gggcccaaca aaagaaacgc aggatttaaa 240
ccagttcata cccaac 256

<210> 10536
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-F5

<400> 10536

cccacgcgtc cggaattatg cttgaggatc aggtggcacc taaagcatgt ggacatactg 60
aaggaaggaa agtcatatca agggaggaag ctgtcatgca cataaaagct gctgtagatg 120
ctaggaaaga gagtggctct gacattgtta ttgtagcaag gacagattct cgccaagcta 180
tttctcatga tgaagcatta tggaggggtga aagcatttgc tgatgctgga gcagatgttc 240
tatttattga tgcccttgct tcagtagaag agatgaaagc attttgtgcg gttgcaccag 300
aagttccaaa gatggcaaac atgttagaag gtgggtgtaa aactcccata ttgagccctg 360
ctgaacttga agaaattggt ttcaggcttg tagtatatcc tttatcctta gttgggggtat 420
caatgcgtgc aatgc 435

<210> 10537

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-F6

<400> 10537

cccacgcgtc cgggtgcaaact ctaaagagct tgcactgact gactaaaaca tgaacataat 60
atgatccgac atctgctata caaggctcta tgctaattgct ctcaaagct gtagcagtca 120
gatgattctc actgccaaaaa gggacctata tacctatcaa ctcaaacta aactatggct 180
attataacaa gtctaccggt tgaatatcca aagcctataa aaagctatcg ttggatctac 240
tgacaactga caccgacata gtaggtaatt tctcaaacta aatgtaatac actaggtacc 300
acattataga acatcaatgc actgcttggt gtcattctaga tctacgggtca gagctgacga 360
ctgatgactg aaacctgtga tcatgcatta cgt 393

<210> 10538

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-004-Q1-K1-F7

<400> 10538

ggatattcat gttgaatgcg aaattagcac cagtagagag catggcgccc atatgggggtt 60

cgagatatgc ttgggggttaa aataaacatg acaacttga cgctgtagac tgaccctaga 120

gcatctatca aaggaaccag acagcgatca tgagtttagg aggcaacgga gggcaataac 180

aaggactcat ctgacacaca aggattctgg gagttgagga gagtgcttca caacaagaga 240

tagagaaggc gtatcacaaa ttggctctgc gcctccaccc ggatacgaat cctgngaacg 300

agccaaagag aagtttcagt agttgcagaa ggttatatcc attcttggag atacagagaa 360

aagagcttta tatgatgaga ctgacatcag tgatgacgat acaatcttca ggagtacttn 420

cgaacaatgt acaaaaag 438

<210> 10539

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-F8

<400> 10539

cccacgcggtt cggcattggg acctactttt gagcacagag tatggggccc atatgaggca 60

atcgatgtcc ttgtacttcc atggactata acggcaccgg cgctggagac tgggcgtaga 120

gcatctatca aaggaaccag acagggatca tgagtgtagg aggcacgga gggcaatatc 180

atggactcat ttgactcaca aggattctgg aagttgagga gagtgcttga caacttgaga 240

tatagaaggc ttatcacaat ttggctctgc tcttttatcc ttattctatt cctgtgaac 299

<210> 10540

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-F9

<400> 10540

acaacacaat ttctaattgc ccatgtgttc ttttggcgct tattggatta gtgaatgctt 60

tccgccaagg ttttgagaag cgattcagtg tctgcacat atccaatatg atacttgcta 120

ttgggagtat gatttttcat gccaccttgc aacttgcctt acaacagagt gactagactc 180

caatggctctg ggagatcctt ctttatatgt atgtccttta ttcgccggac tggcattaca 240
 ggagcacaat gccaaccttc cttttcctat atgggtgctgc ctttgctgta gttcatttct 300
 ttgccctggt ccaattcgta ttcaagcttc attacattgg 340

<210> 10541
 <211> 428
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-004-Q1-K1-E2

<400> 10541

gttaggcgct agccaggtgt taggctactg accagcgtct aggaagtta aacgtagatt 60
 aagcatgctt aatcattctt ttgtagattt tgtgctgctg agagcaaggt cagtagtaag 120
 tactaagtaa taataacaca actcttgctg ttgctgcaca cttgtttttg acataagttg 180
 ctttcctcct tggcttcttg catccaacag cagctgatca tctatgaggg atatctcaat 240
 attgtacatg cacagcgaag cttccaaaca acagggcagc atcacaaggc aaaggatcac 300
 aagaaaatat acacaaaaaa aactcacag ttcattcacat gccttaatgg ttttaagttat 360
 tccaaagaat aggtctatag atcctngtcc cttgtatggg agaagagttc tttgatgatt 420
 ggtgggag 428

<210> 10542
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-C6

<400> 10542

ccgcgacaag gtgcagcagt tcatgaccat taccggcgcc agtgagaagg ttgcccttca 60
 ggcaactgaaa gctagtgatt ggcaacttga aggagctttt gacttcttct atagccaacc 120
 tcaggtttct gtgggtcaata ctggcatct tgaagatatt ttcaacagat ataaagaacc 180
 tgatgctgat atgataatgg tggaaggaat atctcaattt tgcaatgatc tgcaggttga 240
 tcctcaggat attgtcatgc ttgtcatatc atggcacatg aaagccgcca caatgtgtga 300
 atttactcgt caggaattca ttggtggact gcagtcaatt ggggtagatt caatcgagaa 360

gtttcgtgga aaattacat cattacgagc tgagctaaaa gatgacaata aattccgtga 420
tatatacaac ttg 434

<210> 10543
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-C7

<400> 10543

ggaggctacc ctgagggatt ggagaggccc aaggatccag gactgaactc cttgcggacc 60
acaagagaac tgaaagaagg aatggttatc acagtggagc caggttgcta ttccattgat 120

gctttgctaa ctaaaacaag ggatgatcca atttctcaa agttcttcaa ctggcaagag 180

gttgaaaagt ataaaagctt tgggtggcgtt cgcattgaaa gtgatgtgta tgtgacggct 240

caaggatgcc ggaacctcac aaactgcccg agagagacct gggagatcga ggctgtaatg 300

gctggcgcac catggcctct gccggcttca agttctatgg tggtagcagc agagaatagc 360

aatgacatat ctaaagcgtc gtaattttct ctatgctcaa tccatatccc gagttgaaac 420

aaattcgacc tggattc 437

<210> 10544
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-C8

<400> 10544

ccgaactcca aaccctagct tcgctcgttg cggcggcgag ccggcgatgg cgaagtctct 60

gcgatccaaa cgcgagaagc ggcttcggac gttgcgccgg gagatagcag agccgttcta 120

cgacaagaag gaggccgcca agctcgccgc gcaggccgca gccctagctg ctgccccgct 180

cccggtcgcg gggccccgcg cgtcccagga tgccggcacc ccccgcgccg ctagctcggc 240

ctcggctatg gatgtggaga tgtctggtgc agggaacagc aggtctaaga ccatcttgag 300

gccacttggc agcattagca agaagaaggt gcagcttcat ttgaagatca agaaagacaa 360

gagaaaagct aggaagaagg gaaagttttc ttttaagaag tagacgagtg tatgataaat 420

catgcagggtt t

431

<210> 10545
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-C9

<400> 10545

atcacatgtg atcgccacga acgtccgcat gctgggaatg ggcactgac agcctgacag 60
tcgagagagc tctcgaatcg cgcctaggta tgccagatag gaggccctgt gagccgcatt 120
tgccatggac gcgttctttg cttcagcctg gaatgattcc ttccaggagg cttgccacaa 180
cggcacccgc atcatcgccc aacctggacg cagtatgaat gacgaggacg ccgtcgcgtg 240
ctgcaacaag tattgtgtgt cactcgggtct ctacggcatt aggcacttta tgcattatcc 300
gtcatgcccc atggct 316

<210> 10546
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-D1

<400> 10546

catccccatc ctcttccttt cttagtatgt gctatactag ctcgctgctg ccttttggtta 60
caatgtttgt acggtcgcaa taaatgtatg gtcgtgtatt ctcgagagct acttatgttt 120
tttttttctt atatttctta ttcatttttt atattttttg tgatttggtt ttttttttat 180
ttttatttgt tttttatcat atattttttt gttgttattt atcatatttt atatatttta 240
tattttattt attttttttt tttttatttt atttttttta tttttatttt ttgtatattt 300
atttttattt tcttttatat tatttttttt tattgttttt attttttttt tatttgtttt 360
ttgatttatt ttttttttaa atattttttt tttttatttt atttttattt tattttattt 420
tttttttatt ttattttttt tt 442

<210> 10547
<211> 167

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-D12

<400> 10547

gtcctagaaa gcgtgctgtc caaagtcttg aagtattttc caagttacga tctaggaaaa 60
ctagctcatg ggatattgta cgtcattact tcgaagagaa atcctagctc aagaagttgt 120
tcatagattc ttgtctgaga gtgtgcctga caacagatgc tcgtact 167

<210> 10548
<211> 171
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-D2

<400> 10548

atcaatcacc cttgaggtgg agtcttttta ttctattgac aatgtcaagg ccaacatcca 60
ggacacggag ggcatcctaa aggacctgca gcacgctgat ctttgagatc acgcagccgg 120
tctacgaccg taatgtggcc ggcaagttcg tctagcatgc cggaactcta g 171

<210> 10549
<211> 216
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-D4

<400> 10549

gatcaccctg acaaggaggg ggctatctat accttacatg tcatcatcat gaaccaccct 60
ggccagattg gcaatggcta tgccccagtt ctggactgcc acaccttaca cattgctgtc 120
aagttagctg aactcgttac caagattgat aggctatcct tctaggagct ggagaaggag 180
cccaaaattc taagaactgt gatgctggta tgggtga 216

<210> 10550
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-D6

<400> 10550

gaaggatctg aagcgtgggt atgtggcctc caactccaag gatgaccctg ccaaggagggc 60
tgctagcttt acctcccagg tcatcatcat gaaccaccct ggccagattg gcaatggcta 120
tgccccagtt ctggactgcc acacctcaca cattgctgtc aagtttgctg agctcggtac 180
caagattgat aggcgatccg gcaaggagct ggagaaggag cccaaatttc tcaagaacgg 240
tgatgctggt atggtgaaga tggttccac taagcccatg gtggtggaga ctttttctca 300
gtatcctcct cttggtcgat ttgctgtccg tgacatgagg caaacgggtg ctgtcggagt 360
catcaagagt gtggagaaga aagaccccaa 390

<210> 10551

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-D8

<400> 10551

atthttgagca ttcagaaaca caccaagcga agcgcactag caacgaccta acaacaatgg 60
ctaccaagat attagccctc cttgcgcttc ttgccctttt tgtgagcgca acaaatgcgt 120
tcattattcc acaatgctca cttgctccta gtgccattat tccacagttc ctcccaccag 180
ttacttcaat gggcttcgaa cacctagctg tgcaagccaa catgcaacaa caagcgcttg 240
cggcgagcgt cttacaacaa ccaattgccc aattgcaaca acaatccttg ccacatctaa 300
caatacaagc catcacaacg caacagcaac aacagttcct accagcactg agccacctag 360
ccatggtgaa ccttgccgtc tacttgcaag agcagctgct tgcatt 406

<210> 10552

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-E1

<400> 10552

ctaaactggc actcttgaag cgagccatgg gttttgttat acagcatctt ggcccatcgg 60
atcgcctttc agtcatcgct ttctcttcaa ccgccagaag gttgttccat ctccaacgga 120

tgtcacactc tggccggcag caggccctgc agactgtgaa ctcgcttggt gctagtgggtg 180
gcacaaacat tgctgatgca ctgaagaaag ctgcaaaggt tattgaggac cgaagccatc 240
aaaatccagt atgcagcatc attctcttgt ctgatggcca agatacgtac aatattccct 300
caaatattag ggggtgcccgg ccagaatata gttcactagt tccatcctcc attctaaacc 360
acacatttgg cttagtgccg gtgcatgggt ttggtttttg agtagaccat gattc 415

<210> 10553
<211> 418
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-004-Q1-K1-E10

<400> 10553
gagggaggct tcatgaaagg ctaaagggtg gattgggtga ggagataccg ggtagcagtg 60
caaaaggttt ggcagtgaag gcaagtagca gtgaggatac tgaatcactg aactttgctg 120
gtccaaagag ccttgcagag ttgaaggcaa agaaagggtg cggcagggtca ggagaagatg 180
ccgtcgtcaa gggcttaggt tcttctcgta tgacttcaga aatagtttgg agcaaggagg 240
ctgtttggtt gaaaggccca aagcccctaa gtgccatact gaagagaaaa agagagccag 300
cttctgaaat ccccgtgcc cagcctggca tcacacagga agcagataac tacgccgcat 360
gagctgaaga agaaatccaa accctatcaa atgacacggt tggggagaac atggaggg 418

<210> 10554
<211> 241
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-004-Q1-K1-E11

<400> 10554
cgccgcctcc agtcagagc caccgtgaga tctgcccgat tccgcccgcc ggaccgggtg 60
actccctccc ctctcgatc cgttcgggcy gccagcctac ctagcttcta atgcctggat 120
ggtctataat ctttacgaag ttctaggctt taaccggctt gctttggcca tcacaacatg 180
attgtatcaa caacttatgt ttgttggtga tctcttttaa aatagttatg agctataact 240
c 241

<210> 10555
 <211> 269
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-004-Q1-K1-C4

 <400> 10555

 ctgccatccg tgctgatcct tctgtggtca agtcaaccaa gcagccacca aaggagcaca 60
 agaggtacaa cccaagaaa ctgacatacg agcagaggaa ggccagtctc attgaaaggc 120
 tcaaccaact caactcctcg ggcggcgcat atgacgacga cgaggatgac gagtaaagtt 180
 tcgtcccatc gaagtagtgc tatcttatgc ggcgatcagt attcgtgcta tggcatttat 240
 cgctacctgt agtctttcaa catgcattt 269

<210> 10556
 <211> 290
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-004-Q1-K1-A10

 <400> 10556

 ccaagaagac gtactgcaag aacaagagt gcaagaagca cacactccac aagggtgactc 60
 attataagaa gggcaaggat agcctgtctg ccagggaaa gcgcctttat gaccgcatgc 120
 agtcaggata tgggtggtcag acctagcctg tcttcacaaa gatggccatg tccaccaaga 180
 actttgttct gaagctccta ttccagagct gctagcaata ttacagcat gccacctaca 240
 gatgcatatt ttctcttat gctggttaca tctaaggcag gcacgcatct 290

<210> 10557
 <211> 235
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-004-Q1-K1-A11

 <400> 10557

 ggctttcaca aagtatgctc tcaaatatga aatgatgct ggcaagaagg aaattcagct 60
 gcagcttgag aagatgaaga aatatgcttc tggtatccgt gtcattgctc ataccagat 120

taggaagatg aagggtttga agcagaagaa ggctcacctg atggagattc aggtcaatgg 180
 tggtagcatt gctgacaagg tggactatgg ctacaaattc tttgagaaag aggtc 235

<210> 10558
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-A12

<400> 10558

cgtcagcgag cgaccgcacc ggcacggcgc ccattccatcc atcgccatcc tctagcccag 60
 tccaaaggaa ccctagccat gagcgccgcc tccaagaagc tcttccaggc cgccagggtcc 120
 ctctgtcctct ccgcttctca ccgctccgtc ctgcgccgcc agggccgcac cgccgcgctc 180
 gccacgctca ccaactttgg caggaagacc ctccccaccg cctacttatt ctaccacaag 240
 cagggatccc accatgccgc gtcgggggtgg ggagccatcg ccgccgcagt cccagctgca 300
 gtttacatgc tccaggacca ggaggctcat gctgcagaga tggagcgcac cttcattgcc 360
 atcaagcctg atggcggtcca aagaggccct gattctgaag atatgagccg a 411

<210> 10559
 <211> 372
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-A4

<400> 10559

ggctggtgga gccatgctgc tctggacctt ctccggatgg accctcatct aaagaccgga 60
 ggggtggaag ggctgctagt ttcaacatca ttgccagca gcaactggagc tgctaaggct 120
 gttggcaaag tgcttctgt cctcaatgga aaattgactg gaatgtcttt ccgtgtccca 180
 actgtcgatg tttctgttgt tgatctgact gttaggcttg agaagtctgc cacctatgat 240
 gagatcaagg ctgcgggtcaa ggccgatgca gagggtagcc tcaaggcat tctgggttat 300
 gtcgaggagg accttgtttc caccgatttt cagggtgaca gcagggtctag catctttgat 360
 gcgaaagctg gc 372

<210> 10560
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-A7

<400> 10560

cggacgcgtg gggttttttt ttagggaaaa tccatgcttc gcaagatcca ggaaattaca 60
tgaaggtagt tacaacaaaa aaaaacatgg taaacaacag cttccctgc ttttgtctgg 120
tagaagatat gttcaattca tcgaagtggc ttgtcaaaca gagaaacaat cttctatggt 180
ctatcaccaa gttcagctct caagctgtcg tacgggtaga ctttgggagt atatggtatc 240
ttggaggcct tatcgttcac caccgcagcc acaccgaggg cagcgaagaa cccagccct 300
ccgcacagcc acgccaacgc ctctgacttg ccgatgtgcg gggcaaggcg gtcgatgcag 360
ggctccggga agggcgtgcc gttgtccac accagctcgt cggtcacggg caggggtttg 420
tctgggacga tgtggcgg 438

<210> 10561
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-A8

<400> 10561

cttgagaaag acgaatcatt gaagtctaaa gatgaagagt ttaaagatat gaaggataag 60
gtcctacgca gctatgctga gatggagaat gtccttgcca gaacaaagcg tgagtcagag 120
aacaccaaga agtatgccat acagagcttc tccaagagct tgttagatgt tgcagacaat 180
ttgtctcggg catcatctgt tgtcaaggca agtttctcaa agatagattc atctaacgat 240
tctgatgaag ctgtaacact actgaaaacc ctactagagg gtgttgagat gactgagaag 300
caacttgag aggtcttcaa gaagtttgga gttgaaaagt ttgatccttt gaatgagaag 360
tttgatccaa ataggcacta tgccattttc caaattcctg atccttcaaa accatcagga 420
actgttgctt gctgt 435

<210> 10562
<211> 237

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-A9

<400> 10562

ccgagcgcga ctcgttcacc gccaaaggact gggagatcct caccgcgctc tggaggaagc 60
 agcgcgagag cggcctggtg gacccggcca aagcgacgca tcaggggacc tacgagtcgc 120
 tgtgccgcgt ctccacgata ctgttcggca cgtgggagtt cgaccccaact gagatcgaga 180
 acccgtttcc cgactgtgat ggctgcgttt gcttttttct gtggctctct gtactat 237

<210> 10563
 <211> 60
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-B2

<400> 10563

cggtacgcgt gggcccgaag caaacttttt ttctttggca actagggcga tggatgtatc 60

<210> 10564
 <211> 269
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-B5

<400> 10564

ccagctagct gcagcaaacc gtgcttcctt cttgacacag caacagttgc tgcctttcta 60
 ccagcagttt gcggctaacc ccgcaaccct cttacaacta caacaattgt tgccctttgt 120
 ccaacttgct ttgacagacc cagcggcctc ctaccaacaa cacatcattg gtgggtgcct 180
 cttttagatt gcttattagt tgtaattcaa taataaagtt ttttggatga tgtatgtggc 240
 caaccagaaa taagaagtta catttccag 269

<210> 10565
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-B7

<400> 10565

cccacgcgtc cgcccacgcg tccgcggacg cgtgggcaac tagcaacata gaaagcacia 60
tagtgtacca acaatggcag ccaaaatatt ttgcttcctt atgtctcctg gtctttctgc 120
aagtgttget accgcaacca ttttcccaca atgtcacaa gctcctatag cttcccttct 180
tccccatac ctctcaccag cgggtgtctt aatgtgtgaa aacccaattg ttcaacccta 240
caggatccaa caggcaatcg caacaggcat cttaccatta tcacccttgt tctccaaca 300
accgtcagcc ctattacagc agttacctt ggtccatttg gtggcacaaa acatcagggc 360
acaacaacta caacaacttg tgctagcaaa ccttgctgca tactctcagc aacatcagtt 420
tcttccattc aaccaactg 439

<210> 10566

<211> 113

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-B9

<400> 10566

cccacgcgtc cgcccacgcg tccgggcggc ctgtaccgag gtctcggccc tagctgcatc 60
aagctcatgc ccgcccgcgg catctccttc atgtgctacg aggcgtgcaa gat 113

<210> 10567

<211> 197

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-C1

<400> 10567

cccacgcgtc cgcggacgcg tgggaaagcg gcagtgcgta gagaggatcg tcgaacagaa 60
cagcatgaag atggatcatg ttctcgtcgt gtgcctgggt ctgtcagctg ccagcgcctc 120
tgcaatgcag atgccctgcc cctgcgcggg gctgcagggc ttgtacggcg ctggctccgg 180
cctgacgact atgatgg 197

<210> 10568

<211> 415

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-004-Q1-K1-C12

 <400> 10568

 ctctcttggt cttccgcat ggcccagccc gtattcctct cctctctccg ctcccgcctc 60
 tgctccgcgc cgccgtcgcc gcaccatcac ctccagccca gccgcggcta ccacgtcgag 120
 ctcggcgctc gcgagaaaac gcttttggag gaggatgttg ctttgaagag gttcaaataca 180
 tacaagaaca gtgtgaaaca ggtctccaag attgggaatg ttctcacttt agctgttgta 240
 tttggttgta gctacgagct tggtttggtg gcggcaagca tgaagtgaag gaaaacacag 300
 tcattattcc gggaagtgat ccacgagcgt agactgtcat tctatcagct cgtgttttta 360
 gcctgtctgt ctcttttatt ttgtcgtgca ccattgtataa aataaaacta aacta 415

<210> 10569
 <211> 206
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-003-Q1-K1-G11

 <400> 10569

 ctatcaaacc ttgttgcta ctttcagcaa cagcagattc ttccattcaa ccaactaggt 60
 tcattgaact ctgcttctta tttgcaacat caacatctac catttaataca gttacctgct 120
 atctacctcc aataatatct tactattcac caactatcaa tcattgaact atactttatc 180
 atataccgca tctacaacta ctacca 206

<210> 10570
 <211> 365
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-003-Q1-K1-G12

 <400> 10570

 ctagactaga taaaaagttc ccatttcctt caattcccca acttccctcg ccgcaatctc 60
 tcgccgcctc cagtccagag ccaccgtgag atctgccgga ttccgccgcc cggacccggg 120
 gactccctcc cctcctcgat ccgttcgggc ggccggccgg cctagcttca agtgccgggga 180

tgggtgttcta cttcaaggcg cggcccgagg cgggcgacta taccatcttc atgggtcttg 240
acaagtagca gaacgaggac ctcacaaat acggcttccc cgaggacatc tgggtccatg 300
tagataagat gtcctctgca catgtgtatg tgagattgat taaagggtcaa tcaatggatg 360
acatg 365

<210> 10571
<211> 436
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-003-Q1-K1-G2
<400> 10571

cgcgagcggc ggctggcgagg tctgactcgc acggcgacgc cgctgcgtct ggtgtcccct 60
cccctggtgt ggctggtggt ggaggcggcc cgggaggctg gtcccacggc acagctgctg 120
cggcgacagg ggggtggtgta ccggcacctg acctacgcgg agaacttcac atcggaggcc 180
tgaggaggagg agcggcacca ccagaggaac caggcgctag cgcacatcga gcggcaccgt 240
ctgcgcggcg tcgtctctct cgcggggctc gccgacgtgt acgactgccg tctactggag 300
cagctcaggc ggcacatcag gacaaggagt gtgggcgcgt gggcagtggc gacagtatgg 360
gagcaggaaa agagggtggc cgttgaaagg cccgtcgtcg tttgcaacac caacaccacc 420
aacatcacca gcgcag 436

<210> 10572
<211> 458
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3059-003-Q1-K1-G3
<400> 10572

cgccgaatt ccggtcgacc acgcgttcgc cagcgtncgc cagcgtncga cgcagaattc 60
ggccaagatg caaaagccgc acagggggca tcagagaaag cagtggacaa gttggcagcc 120
acataccaaa ggccagcatc ctcgtcgaga aagagccgag gctttcctct tttgggtccaa 180
gccagagaga tgggaagtca gcggtgagga aagtgtccgg ggcaaccgtc gcgtgcatcc 240

cgctccgagt tgttttcagc aggatcaacg aggcgctgag cttctcagtt aatgagaatg 300
 ccctagctgg gtgtgggact gcttcccggc tgaggaatac ttggtagcta ggttttgctg 360
 tttgttgctc accgcttgct tttttgtag ccatgccata atagcattgg taaatgttta 420
 gtgtggccta tcaattggag catggaata ggtgatga 458

<210> 10573
 <211> 305
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-003-Q1-K1-G4
 <400> 10573

nctgctgctg gtgtagagac agtggctgtc ttgccacaac atgctggcac aattgtacta 60
 gcaggtgaag aaactggatt actagtgtgg gctgcaaaat gacggcgaat caattgtgaa 120
 tgttgctggg gttcattcaa ctcttcattc tccttacgac cacactatgt atggtcagaa 180
 ccttactgtt cagaatttct tcaattcatg agttcctgtt gctgtgcaag cagccttcca 240
 ctacaagtac gctgggagca agtacttgca gcctgcagct tatgacctgg ccgtttacat 300
 attga 305

<210> 10574
 <211> 421
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-003-Q1-K1-G5
 <400> 10574

acgcgatcaa ggcgcagctg gagagggcgt gcccgggcgt ggtgtcgtgc gccgacatcg 60
 tggcgctggc ggcgcgcgac gccgtgtcgt accagttcaa ggcgtcgtg tggcaggtgg 120
 agacggggcg gcgcgacggc acggtgtcgc tggcgctcaa cacgggggcg ctgccgtcgc 180
 ccttcgcggg cttcgcgggc ctgctgcaga gcttctcgga ccgggggctg aacctgacgg 240
 acctcgtggc gctgtcgggg gcgcacacca tcggcgtggc aagctgctcc agcgtcaccc 300
 cgcgcctgta ccaggggaac gccagcagcg tggacccgct gctggactcg gcctacgcgc 360
 ggacgctcat gtcgtcgtgc cccaaccgt cgccggcggt ggccaccgtg gcgcttgacg 420

g

421

<210> 10575
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-G6

<400> 10575

cccacgcgtc cggaagcac aatagtgtac caacaatggt agccaaaata ttttgcctcc 60
ttatgctcct tggctcttct gcaagtgtg ctacgacgac cattttcccg caatgtcac 120
aagctcttat agcttctctt cttcccccat acctctcacc agcgttgtct tcagtatgtg 180
aaaacccaat tcttcaaccc tacaggatcc aacaggcaat cacagcaggc atcttacctt 240
tatcaccctt gttcctccaa caatcatcag ccctattaca tcaattacct ttggtgcatt 300
tattggcaca aaacatcagg gcacaacaac tacaacaact cgtgctagca aaccttgtg 360
cctacgtca gcaacagcag ttacctttgg tgcaattgtt ggacacaaaac atcagggcac 420
aacaactaca acaac 435

<210> 10576
<211> 442
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-003-Q1-K1-G7

<400> 10576

cggacgcgtg ggtagaaga ggtgaaacac cccctcgagg tacacagcac ccagagcgaa 60
aaaactgtgg ccctgccggg gggaacacca ccttgacagg agagccgaaa ctcctccat 120
gcagggatct ggatgcctgc taggtttgct tcggagcatt acgagcacgc gcataacttg 180
gctcgtactg taaggtgtgc aaactgcaca cagcggaggc tgtgttattt gtattctgaa 240
gctttcttgt gtttcgtcaa gaaagcttct ctaactttta tctgcacta tcagataaac 300
ggtaaattga tagagaataa gatgttttcg agctcatgtt tagtggcaaa cgctntatat 360
ttttggcaag ctgtgaagga gctgaaccag tgacaactcg aagaattcat tntgttgtat 420

taagtcttct tgtagccca tt

442

<210> 10577

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-G8

<400> 10577

cggacgcgtg ggccagattt cagcttctat gaccgttttg ctccaattta tacacaagct 60

cgacacctgc caccttcaaa ggttcttgat gctgatgtga cagacagtgt tattggtgaa 120

ggatgtgtta ttaaaaactg caagataaac cattctgtag ttggactccg atcttgcata 180

tctgaagggtg ctatcataga ggacagttta ctaatgggtg cggactacta tgagacagaa 240

gctgattaaa aacttcttgc cgaaaaaggt ggcattccta ttggtattgg gaaaaattca 300

tgcatcaaga aagcaatcat tgacaagaat gcttcaattg 340

<210> 10578

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-G9

<400> 10578

cccacgcgtc cgccccacgcg tccgccccacg cgtccgaaaa aaaaaaaaaa agatacagat 60

gaaacaacat atacaaggaa gaagaaaaga cgaaaaaaca tcaagggcat gagcgggacg 120

gtagctggac ggccgcaaca tgaccgtcaa ctatggccca gtccagctgt cgctcgagga 180

ggcggcagag gcgggtacgg tggcggccgt ggacgcggcg gctacggcgg aggcggggcg 240

cgtgatggcg gtagcggcta cggcggaggg ggcggtacg gtggcggcgg ctgttacggg 300

ggtggtggcg gcgga 315

<210> 10579

<211> 186

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-H10

<400> 10579

aggcgtcagc aaaccaaacc gctctcgagt cttcatccat tctctacgct catccgcagc 60
tctctagtct ccagctctag ctagccttag cctcgtccaa gggacgaagg ggccaccatg 120
agcgtggtga tcttggacgg ctccacggtg cgcggcttcg tggcggacga ggcggccttc 180
gcgcgc 186

<210> 10580

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-H4

<400> 10580

aagcacaata gtgtaccaac aatggcagcc aaaatattgt gcttccttat gtccttggt 60
ctttctgcaa gtgttgctac cgcaaccatt ttcccacaat gtcacaagc tcctatagct 120
tcccttcttc ccccatacct ctcaccagcg gtgtcttcaa tgtgtgaaaa cccaattggt 180
caaccctaca ggatccaaca ggcaatcgca acaggcatct taccattatc acccttggtc 240
ctccaacaac cgtcagccct attacagcag ttaccttggg tccatttggt ggcacacaac 300
atcagggcac aacaactacc acaacttggt ctagcaaacc ttgctgcata ctctcagcac 360
catcagtttc ttccattcaa ccaact 386

<210> 10581

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-H7

<400> 10581

cggacgcgtg ggcggacgcg tgggtgctgg gcaagaaaag ttcggtggcc ttagggatgg 60
ctactacatt catggtcagt gtgccatcat tatgtttgat gtcacttcta ggctgacata 120
caagaatggt ccgacatggc acagggacct gtgcagggtc tgtgagaaca tccccattgt 180
tctttgtggt aacaagggtg atgtcaagaa caggcaagtc aaggccaagc aagttacatt 240
ccaccggaag aagaacttgc agtactatga gatttctgcc aagagcaatt acaactttga 300

gatgcccttc ctttacctcg ctaggaagct ggcattgggat cagaaccttc actttgttga 360
aactgttgct ctgaaaccac caaagtgc gattgatat 399

<210> 10582
<211> 270
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-003-Q1-K1-G10

<400> 10582

cagaaacaca ccaagcgaag cgcactagca acgacctaac aacaatggct accaagatat 60
tagccctcct tgcgcttctt gccctttttg tgagcgcaac aaatgcgttc attattccac 120

aatgctcact tgctcctagt gccattatc cacagttcct cccaccagtt acttcaatgg 180

gcttgaaca cctagctgtg caagccaaca tgcaacaaca agcgcttgcg gcgagcgctc 240

tacaacaacc aattgcccaa ttgcaacaac 270

<210> 10583
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-E6

<400> 10583

ggcagccaca agaaaccacc cccttccggc acacgggctc gaccacctga ctgcatgacc 60

gtgcctgtct gtgttctagg gacaagcaga gcagagagat ccaggagcga gcagaggcgg 120

cgagaagagg atgagcacca caacggcgctc gtcgctgaac cccaacgcgc cgctcttcat 180

gccggcggcg taccggcagg tggaggactt ctgcgccgag tgggtgggagc tcgtcaaacac 240

caccggctgg ttccgggacc actgcttccg gcagcgccag ctccacgagg ccgtctgcga 300

cgacgtcgcc gcgctcctcc ccgacgacct cctcgacacc aacgacctct tctacgcgcc 360

cgacgtcggt caccaccaac cagcgacggc gctgctgccc gggtagcatg tactcgacgt 420

gctcgcgggc ctgag 435

<210> 10584
<211> 432

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-003-Q1-K1-E9

 <400> 10584

 cccacgcgtc cgccacgcg tccgcggacg cgtgggggac caactagcaa catagaaagc 60
 acaatagtgt accaacaatg gcagccaaaa tattttgcct ccttatgctc cttggtcttt 120
 ctgcaagtgc tgctacggcg accattttcc cgcaatgctc acaagctcct atagcttccc 180
 ttcttcccc gtacctctca ccagtgttgt cttcagtatg tgaaaaccca attcttcaac 240
 cctacaggat ccaacatgca attgcatcag gcattctacc tttatcacc ttgttccttc 300
 aacaatcatc agccctatta cagcagttac ctttggtgca tttattggca caaaacatca 360
 gggcacaaca actcgtgcta gcaaaccctg ctgcctactc tcagcaacaa cagttacctt 420
 tggtgcattt gt 432

<210> 10585
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-003-Q1-K1-F10

 <400> 10585

 gccatatctg acgatccact cgagcaccaa gccggaggaa ggcgaggacc gactgcacct 60
 ctacaggctg cccaaggctg aatacattcc agtgtataaa gaatatgatt cctttactgt 120
 taagagaatc tctgatccac aggctttaa ggaaagtcca gcaagggctg ttgctagcga 180
 taagggtagc cctataccct caagttctaa ccaggagaag gattcagtgg ctaagactat 240
 accgaatagg gtgaaggaaa aaagtgatga cgaaggtaga cacttgcccg ctgaatttga 300
 tggaaaagaa aacctggtgg tgaactcaaa aattgagaag tctgattctg gtgttgactg 360
 ggtcgagaa agagaaagag aaagagagag atcaagaggg cgggaacgtg atgctagggg 420
 tagggat 427

<210> 10586
 <211> 294
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-F12

<400> 10586

tgctgtcctt ggtttcagac ttggtgggaa acagatgatt tgggtggtgca acaagatgga 60
tgctactaca cccaagtatt caaaggcccg ttatgatgag attgtgaagg aagtctcttc 120
ctacctgaag aaggttggat acaacctga taagatccac ttcgttccaa tctctggttt 180
tgaagggtgac aacatgattg agagggtccac caaccttgac tgggtacaagg gccaaccct 240
acttgaggct ctggacttga tcaatgagcc aaagaggcct tcagacaagc ccct 294

<210> 10587

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-F2

<400> 10587

ctgaagctgg gctatgcgaa gtttggattt gattttatac aacagagcaa ccaaattggc 60
ccactcttcc ataacattgc cctgcaacaa tacatcctac tttgttctca ggtgaggtaa 120
ctttgaatac aatattattt tcatatgcag agttttatca ctagaatgtg aaattctgca 180
atgccgtctt attatagttg ttaccaccct ctatcccgaa attataagtt gttttagctt 240
ttctaggtta cataactttt gatatgcacc tagatataca atgtctacat acatagcaaa 300
agttatgtgc cgaaaaatgc cgaaacaacc tataaattgg aacggaagga gtatttattg 360
agaaaatgag atctcagata agttaagatt acaatcgctt ctgtaactca agtact 416

<210> 10588

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-F4

<400> 10588

ctgcctcctc tacgagcttc tccgcaacaa gctcgacgag gcccgcgctc gcgagatcgt 60
cgccgacgct gtcgacatcg agcgcgagtt cgtctgcgac gccctccctg tcgcgctcgt 120
cggcatgaac ggggatctca tgagccagta cattgaattc gtggccgacc gcctgctcat 180

ggcgctcggg tgcaagaaga tgtacaacgt gaccaatccc ttcgactgga tggagctcat 240
 ctcgctgatg gggaagacca acttcttcga gaagcgcgtg ggtgactacc agaaggcatc 300
 cgtcatgaac agcctcaacg gcggcggcgc tgccgaccac gtcttcagca tcgatgagga 360
 cttctgagtt ggcacgcgta atctatggtg tcggtttaat gttagtat 408

<210> 10589
 <211> 441
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-003-Q1-K1-F7
 <400> 10589

cggacgcgtg ggccgtctcc acagcaacca gcacacattt ccctttggcg gatcgaagga 60
 aggaaggaag gaggagatgg gtggcggcat ggaggtgcac aaaaaccggt ggatcgaaga 120
 gtggaacgcc ggccgcgaga acctcgagtt caatttcgcg tggaccgcc gcagcctcgc 180
 cgtcgtcggc ctcttcggcc tcgctgtccc catcctcgtc tacaagggca tcgtccgcga 240
 attccatatg caggacgagg atgcaggccg gccatacagg aagttcctgt aagcggcgtc 300
 cagggccgca ggagacgtcg atccctcgac cggggctgcg aggaggggag tttccattca 360
 gtttggtgctg gtattgtttt agtctgaatc tgatggagca gtttggaatg ctgaactatt 420
 gtgcctgata caaatgaata a 441

<210> 10590
 <211> 431
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-003-Q1-K1-F8
 <400> 10590

cggacgcgtg ggccggacgcg tgggagatac aagaaactat accaacagtt gttttttcag 60
 aagaaagact ataccaatta gatcgccaaa ggtagttctt ttgtgctccc gctgaaatct 120
 ggatagatct cttgcccttg aactactttg gaatcaaact gtaaaaatga aaatatagtg 180
 attgagccct tgtttgatc agagaagcaa tatagctgac tagctcatcc attatcttac 240
 tgctatggtc tactgctagg catcatgttg gatttggggg atttggcaga actttgtctc 300

atgtttgatg gaagtagacc agggactaaa ttgattgggg tcagctaaac cattctgtga 360
 atgaagggtgc atcatctgca gctgactgtg gaagtaatat gttgaccaa ctgagcaaca 420
 acattcttat t 431

<210> 10591
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-F9

<400> 10591

ccaacaagca acatagaaag tggaatacag tagcaacaat agagcaacaa tggcggccaa 60
 gatattttcc atccttatgc tccttgcctt ttctgcatgt gttgctaacg cgaccatttt 120
 tcctcaatac tcacaagctc ctatagctgc ctttcttccc ccataccttc catcaatgac 180
 cgcttcagta tgtgaaaacc cagcccttca accctacagg ctccaacaag caatcgcaac 240
 aagcaactta cttttatcac ccctgttctt tcaacaatcg ccagccctat ctttggtgca 300
 atcattggta caaaccatca gggcacaaca gctgcagcaa ctctgtgtac cagtgatcag 360
 ccaagtagct ctggcaaaac ctttctccta ctctcagcaa caacaatttc ttccattcaa 420
 ccaactgtct acactga 437

<210> 10592
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-E5

<400> 10592

cgtgaggggc cccatcacca tcgcggggaa tagtgccttg ttgcagacga cagcgagcgc 60
 gaacgcgccg ccacttgacg ccacgagctc catcgtcctg ttgcggggct gccgctctcg 120
 ctccgtctct tcttgagta cctcgtgagg gtcccatca ccatcgcgct cagccgccc 180
 gtcgccaggg ccctaagccg ctggaggctc gtcaagagct gatctgtgtt ttttctgtca 240
 caactgctct gggatatagg gtgcatccac atccaggaaa tccagagaga aaattcgccg 300
 cggtttgttt tttgtggtca tggatgaaag ctgaaatccc tggagcgaag tctcatgttg 360

aactccccctt tgttcatcag tgagtgcagca atcctaagag gagtgcacct acattgaatg 420
agacattttt ggggtcttc 438

<210> 10593
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-D2

<400> 10593

gtcgaccagc aggggagtcg ggggtcacat gcatgcttaa tcacattgtt gactgcataa 60
cggaacacat cgtcgccgga tcggagatga tgagttccgt cgtcgtggat gctgctgcta 120
ccagcagcat cgagaagaaa acgtcgtggg cggaggtggg gggcatgtcc atcaaggagg 180
cgaccgagac tattctcaag gacatgccca acgcgtacat gcagggtgctg cctgttgggt 240
cgcccgtagc gctggacctt cgccccgacc gcgtacgtat cttcgatgac accgtcgtca 300
tgactccgac agttgggtga tacataccaa atgcaattaa cagaccctac tttgtatttt 360
atgtttccag ataataataa accatgcctt agctctttgg gtgtccttcc ttggctgggtg 420
ctagcttcta agctactagt ac 442

<210> 10594
<211> 204
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-D3

<400> 10594

gcgacagcat gggagtcagg tctcatagct tgcttcatta cattgcagac tgcataacgg 60
aacacatcgt ttctgatcg gagacgatgt gttacgacag cattgatgct gctgctagca 120
gcagcatcga ctagaaaacg tcgtgcgcac aggtggcggg catgtgcac atggatagga 180
cagagactat gtgttaagga catg 204

<210> 10595
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-D4

<400> 10595

cccacgcgtc cgggccaaga tgatgctggt gtggccatat ctcggtgcagt gaagagagca 60
cgtgttgccc ttaacgatcc tgatagacct attgctacgc tgcttttctg tggccaaca 120
ggagttggtg aaacagagct caccaaagct ctagcagcta gttattttgg atcggaatct 180
gctatgctta ggtagacat gagcgagtat atggagaggc aactgtgag caagctcata 240
ggctctcctc cagggtagat tgggtatggt gaaactggta ctttgacaga agcagtcagg 300
agaaaacat ttactgtggt attgttggt gagatagaga aagctcacc tgatattttc 360
aacatccttc tccaaatatt ggaggatgga catttgacag actcacagg 409

<210> 10596

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-D5

<400> 10596

aactctgctt cttatttgca acaacaaca ctaccattca gccagctacc tgctgcctac 60
ccccagcaat ttcttccatt caaccaactg gcagcattga actctcctgc ttatttacag 120
cagcaacaac tactaccatt cagccagcta gctgggtgtga gccctgctac cttcttgata 180
caaccacagt tggtgcoctt ctaccagcac gctgcgccta acgctggcac cctcttacia 240
ctgcaacaat tgctgccatt caaccaactt gctttgacaa acccagcagc gttctaccaa 300
caacccatca ttgggtggtgc cctcttttag atttcttatg agttatagtt caataataaa 360
gttttttgtc tg 372

<210> 10597

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-D6

<400> 10597

ggcagccaaa atattttgct tccttatgct ccttggctt tctgcaagtg ttgctaccgc 60

aaccattttc ccacaatgct cacaagctcc tatagcttcc cttcttcccc catacctctc 120
 accagcggtg ttttcaatgt gtgaaaaccc aattgttcaa ccctacagga tccaacaggc 180
 aatcgcaaca ggcattcttac cattatcacc cttgttcttc caacaaccgt cagccctatt 240
 acagcagtta cctttggtcc atttgggtggc acaaaacatc agggcacaac aactacaaca 300
 acttgtgcta gcaaaccctg ctgcatactc tcagcaacat cagtttcttc cattcaacca 360
 actggctgca ttgaactctg ctgcttattt gcaacaacaa ttaccattca gccagctagt 420
 tgctgcctac ccccagcaat 440

<210> 10598

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-D7

<400> 10598

gtccaaggtc cagtatgctc atcagtattc tgctcctct tagtctgaac catgacttgg 60
 gaagggactc agctgaatga ttatggcctg ggacagggtta cagtctttat catctagtgt 120
 agactacaga gtgtgttagt tgttgtgcaa gtacgtgcag gcgatgtgct tatgagtcag 180
 tgtttagagt tattcatgtc tgcttgccgg actagccctg gtctgtgctgg agcggagctg 240
 attgccccaa tgcgccagtt ctgcaagctg ctgagcacat taaagctgcc gccgactgat 300
 gacgtatgc tctc 314

<210> 10599

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-D8

<400> 10599

ggacgaagag ctggaagagg aagaagcaga tgtctccaac aagaggcagt gtgttagagt 60
 tgaaaacggg gaagctgggg atgccaccgt agcagaggtg gaaccaaaca acggcggcg 120
 cggcgggggc ggggaccgct gaacagtga cagcaccacc acgtttgtcg ctaactcgct 180
 attttcacaa cagcatcggt attggatttt tgagcgttgt ctctggcatt tttcatgtat 240

tttagggcta gtttggcaaa ttcatttttc caagtgattc cgattttcct aaggtaaaat 300
gaactaattt ccttggaaaa atgaataaaa aaaatcacta gtaaaaatgg gattgcaaaa 360
ctgtccttta ttagacaatt tctgccgtac tctactcggg actgattaac tgac 414

<210> 10600
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-D9

<400> 10600

accattgcaa cgcaacaaca acaacaacag tttctgccat cactgagcca cctagccgtg 60
gtgaaccctg tcacctactt gcaacagcag ctgcttgcac ccaacccact tgctctggcg 120
aacgtagctg cataccagca acaacaacag ctgcaacagt ttatgccagt gctcagtcaa 180
ctagccatgg tgaaccctgc cgtctaccta caactacttt catctagccc gctcgcgggtg 240
ggcaaagtga cctacgtacc tacaacaaca gttgctgcaa caaattgtac cagctttgac 300
tcaactagct gtggcaaacc ctgctggcta cttaca 336

<210> 10601
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-E10

<400> 10601

cccacgcgtc cgacgcaa at tgcacatga aatccatcga gaggccgtcg acaggggaat 60
taatggcgct gtcgtctagc agcagccacc gtcgctcat cctcgcagcc gccgtcctgc 120
tctccgtgct cgcggctgcc agcgcagcg ccgggacctt ctgctgccc ggggtgggcca 180
tcccgcacaa cccgcttcgg agctgccgtt ggtacgtgac cagccggacc tgcggcatcg 240
ggccgcgcct cccgtggccg gagctgaaga ggagatgctg ccgggagctg gcggacatcc 300
cggcgtactg ccggtgcacg gcgctgagca tcctcatgga cggcgcgatc ccgccgggcc 360
cggacgcgca gctggagggc cgtctagagg acctgccggg ctgccgcggg gaggtgc 417

<210> 10602
<211> 432
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-003-Q1-K1-E11

<400> 10602

gagaaccctn cgagcatcct agtgactccc atggctccgg ccatgtcggc gcagttcaca 60
agaataacct tcagcaacct gtttgctcgt cgggctggcc catgcagcac ggagctgacc 120
gtggagggaa ggccatccga ccagctgggc aggagaaacc tcaactgacag ccccgatttt 180
gacggccgtg gccctgacgc cagcctcgtg gctcgcgtac agggagtcgc taccagatg 240
ggcgacgtgc gccagttgta caccgtcgtg ttccaggaga ggccgctcaa gggctccacg 300
ctcgtcaccg aaggcgcgat gacagaaggg tcagacgagt gggcgatcta cgggtggaact 360
ggagtgttcg cgatggcgag aggcgtcata aggagaacgt ttcttgccga cacgagcggc 420
gggaactccg ac 432

<210> 10603
<211> 172
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-E12

<400> 10603

gcatgtacac gggccagttc gtctactgcg gtcgccgcgc caccctctcc atcggaacg 60
tgctgcccct ccgcgggatc cctgaagggtg ccgtcgtctg caacgtctag caccacgtct 120
gtgaccgcgg agacttcgcc agcgcctgtg tggactacgc cattgagatc ag 172

<210> 10604
<211> 119
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-E2

<400> 10604

gctatatata tatagccatg gctaataaat aggagtataa tcgtcatatc gatcggttgc 60

gtgtggaatg ccaatcatgt gtgtaatctg ttggcaaata acaaacctct gttcctccc 119

<210> 10605
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-E3

<400> 10605

cgctctatgc gggtaacgaca ggatcctgag gtagctagcc tggctgagaa gcgtgtggcc 60
tgcagcggcg accgaagcgc cccccgggaa gaatactatt gttgtagggg tccaccagag 120
ccagcacatg ttctaccctc tccagtggca ctgcatcact tattcccgtc aggccagccg 180
tagcaatacc gcctagtcgt cgtaaccgcc aagcccaccg ccgtcttcgc cgtcggcctc 240

accggcccaa gcgcctcgga tgtgctgccg tacgtggaag ccgatcttaa gcgcctccgc 300
ctgctcgttt ttgaaaaagc caaaggcctt tgcacacagg cgaacgacgc tttatttgaa 360
gcgctggaag gggacgcttg gaacgtcctt tgctaagctt tcaagaggca cggggc 416

<210> 10606
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-E4

<400> 10606

cccaaagat gacagaggta ttgccattag atttatatga catgacgccg tcaagtaatg 60
gtcgggtggt accagtttct gttgtttttg tgccgcgcag gtctatgcaa acgtctcagg 120
agaggcgccg ctggatgagc ctatgatcga cgtgagttcg agtcagttct acggtgaagg 180
atacgatgac agtgataaga gaattcctga catgactata atcaacaagc agctaggttg 240
gaacccaaag acacctctca aggatctgct ggagacaaca ttgacgtacc agcacaagac 300
atacaaagaa gctgtgaaga ggcaaagtgc gcaggcttca gcaacaagtt aagttggcgc 360
tggctgggga cggctcctcg tttagagccc tagtcgcagc agctgtttcg caagtcagaa 420
tacatatacg ccgtaatc 439

<210> 10607

<211> 318
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-003-Q1-K1-D1

 <400> 10607

 gaaagacgcc ctggagatca aggggggatgc cggacaagga cctagagggc gacgacgaca 60
 agggcccaga gcgggacagt tgccgtatag gactctcttg ccaggctttc aagatggacc 120
 agatcaaggc tgacatgaat aacggcgtgc taagggtcac cgatctgaat agcaaagacg 180
 aggaacacca tgacgtattc gagatcaaga tcgactatgg ggtgtgcatc ggatggggcc 240
 tactaggtgt cctatttgca atccatatat gtccatatcc gtaatgcagt gcatattcat 300
 atcggaaatg ccatgagc 318

<210> 10608
 <211> 315
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-003-Q1-K1-B11

 <400> 10608

 ccggtcgacc acgcgtccgc ccacgcgtcc gccttttaac tccctttctt aggagatact 60
 ctggcaagag tcgtcattca agggaaagcc actctcatag ccgcagttcg tactccaggt 120
 ctgtgtccag ggagcgctca gcttgatctg cgagggtgtg cgtcctaggt ggttataaga 180
 tatgcgctgt atttgcatct atcagaactt gtgtacttcg tatattacga acttgagaac 240
 tgtatggatg tgtgcattgt gccaaaaaaaa aaataaataa tgaagtttaa aaaaaaaaaa 300
 agcttatata tatag 315

<210> 10609
 <211> 282
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-003-Q1-K1-B12

 <400> 10609

 tgtcacatgc atgcttcatg acattgctga ctgcataacg aacagatcg tcgccagatc 60

tgagatgatg agtgccgtcg acgtggatgc tgctgctaac agctgcaatg tgcagaagac 120
gtacaggacg caggtgggtg ctcatgctga tagggtggcg actgaaacta tgggcacgga 180
catgcagcac gagtacatcc aggctctggc tgacattgcg cacgtgacgc tggatgttcg 240
atgcaagggc atcagtgttg tacatgacac tgaagctatg ac 282

<210> 10610
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-B3

<400> 10610

gttgtaggaa aaaagcccag attgaagata gaatctgatg ctattgatgc ttcagatggg 60

ctggacacgc ttgcaaacct tgcaattctt ggtgaagggtg aagcgctccc ttcgcagcca 120

acaacaaaac atccccgcca ccgccccggc tgctcatgca tcgtctgcat ccaaccacca 180

agtgggaagg gtccaaagca caagcagaca tgcacctgta acgtttgtat gacgggttcgc 240

cgtcgtttta ggacactcat gcttcgacgc gagaagaagg tgacaagaga ttcctctcgc 300

aagaaagaga cgggccaat 319

<210> 10611
<211> 181
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-B5

<400> 10611

cggacgcgtg ggcggacgcg tgggcggacg cgtgggggttg gacaaacca gcagcctcct 60

accaacaaca catcattggt ggtgccctct tttagattgc ttattagttg taattcaata 120

ataaagtttt ttggatgatg tatgtggcca accagaaata agaagttaca tttccagatt 180

c 181

<210> 10612
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-B6

<400> 10612

cccacgcgtc cgcccacgcg tccgacgcc atggcagcca agatgtttgc attgtttgcg 60
ctcctagctc tttgtgcaac cgccactagt gctaccata tcccagggca cttgtcacca 120
ctactgatgc cattggctac catgaacca tggatgcagt actgcatgaa gcaacagggg 180
gttgccaact tgctagcgtg gccgacctg atgctgcagc aactgttggc ctcaccgctt 240
cagccgtgcc agatgccaat gatgatgcca ggtatgatgc caccgatgac aatgatgccg 300
atgccgaata tgatgccatc gatgatggcg ccgactatga tgtcaccaat aacgatagct 360
agtatgatgc caccgatgat gatgccaaac atggtttcac caatgatgat gccgagtatg 420
atgccttcga cgatga 436

<210> 10613

<211> 297

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-B7

<400> 10613

cccacgcgtc cgcccacgcg tacgaggtac gattgtacgt acgactattg ggcagcagga 60
gatgatagtt ataagatcta gaggcataag caatatgaat tgctgatgga tcaagatgct 120
aatacatatg cctgtacctg gctagaataa aaggattcat cagcagataa acattcagat 180
gtaaacgaga agactagagt gtgaaattaa ccaggagcaa tatatagtga ttaaaccgat 240
gcactcgagc ataatacaca tgagaagacc agatctatgt taacctataa taagaaa 297

<210> 10614

<211> 130

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-B9

<400> 10614

cgattcgctg accacgcgtc gcacctctac ctgcacctc gtttggactt atggcatgag 60
aatgttgaat atcgcttaca gagaggactt tacgttcggc ttatatcatt accagagtat 120

gcggatattt

130

<210> 10615
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-C1

<400> 10615

agctgagagg ctgagagata atgatcttgt tcttgagcaa tatctcttag ctaattcacc 60

tggaatdgct ggattccggc ttgattcttt cagtgttata agacctcgtg tgaccattc 120

accttcttca tcagagttgg acatgagggg gttttcattg acacgaatgg aagatagatt 180

tataaaccca gcaattctgt atatacaggt cacagttggt aaggagtccg gcaagttggt 240

tgtagaggaa taccgtttac cagaagtaaa agcaaacacg ccactatatt ttgatttccc 300

agatctacaa caggatgcgc gctgtgttat ctttagattg cttggtgacg tctctgcctt 360

tgtcgacgac atttctgagc ttgagaactt aaacttgagg aatcttctt tggcgctc 417

<210> 10616
<211> 201
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-C11

<400> 10616

ctgaagagaa aattgaagag gacatgtcag acagactggc acgagaaagg gctgaggaac 60

aagctaggca tgaggcattg ctcagaaaga gatccaaagt gttgcatagg agtctgccta 120

ggccaccggc tgtttcagta gagattatcc ggcaatctct tattagaagt tgtgatagca 180

tattcagaag cacctttatg c 201

<210> 10617
<211> 237
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-C2

<400> 10617

cggacgcgtg ggcggacgcg tggcgacgcg cgtgggttag gatagtacac ctgcctagat 60
 ttgcagatgt aaaacattgt tgtgtaagct ctcatatata tatatacaca cttttgccct 120
 gaggcaatga gctgtatgtc atgttttaag agtaaaatgt gatttttgag gggtttccat 180
 ctaggaaacat taacatttaa actgtatttt tttggcctat aaactttcac tggagat 237

<210> 10618
 <211> 398
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-003-Q1-K1-C3
 <400> 10618

cccacgcgtg cgcaaccctg ttatgggtggc catcaacgga gtatgcacaa cggcgacagt 60
 cgcacagcat gaaagtgtct ctgatacaca ttgtcgtgcc cgtggccgcg gtgatcgccg 120
 acgacgtgag aaacgggtgga tcggggacac acaagcaca tgagcttgcg agtgctggct 180
 gaagaaacat aaggatgtca tggcccctgc tgttattgca aagggggagg acgtcatgtg 240
 gacttctggt ctaatctttg gaaaatgaaa ggggattgtg gggcttgaaa caaatttaag 300
 gacacttcat attcaattgc tgccctgggtg cccgccccgt tcagtggacc acttcattga 360
 gctcctgggc ttgcgcaact gtgctggatg cagatttt 398

<210> 10619
 <211> 445
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-003-Q1-K1-C4
 <400> 10619

cggacgcgtg ggcggacgcg tgggtagaaa gtggaatcca gtagcaaca tagagcaaca 60
 atggcgacca agatattttc cctccttatg ctccttgctc tttctgcatg tgttgctaac 120
 gcgacaattt tccctcaatg ctcaaacgt cctatagctt cccttcttcc ccatacctt 180
 ccatcaatga tagcttcagt atgtgaaaac ccagctcttc aaccctatag gctccaacaa 240
 gcaatcgag caagcaacat acctttatca cccttggttc aacaatcgcc agccctatct 300
 ttggtgcagt cattggtaca aaccatcagg gcacagcagc tgcagcaact cgtgctacct 360

gtgatcaacc aagtagctct ggcaaacctt tctccctact ctcagcaaca acaatttctt 420
ccattcaacc aactgtctac attga 445

<210> 10620
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-C6

<400> 10620

cccacgcgtc cgaccaacta gcaacataga aagcacaata gtgtaccaac aatggcagcc 60
aaaatatttt gctccttat gctccttggc tttctgcaa gtgctgtac ggcgaccatt 120
ttcccgaat gctcgcaagc tcctatagct tcccttcttc ccccgtaact ctcaccagcg 180

gtgtcttcgg tatgtgaaaa cccaattctt caacctaca ggatccaaca ggcaatcaca 240
gctggcatct tacctttatc acccttggtc ctccaacaat catcagccct attacatcag 300
ttacctttgg tgcatttatt ggcacaaaac atcagggcac aacaactaca acaacttggt 360
ctagcaaacc ttgctgccta ctctcagcaa cagcagtttc ttccattcaa ccaactagct 420
gcattgaact ctgggttc 437

<210> 10621
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-C8

<400> 10621

cggacgcgtg ggtgctgtc gacgcgagca gacgacggag aacaaccgga ggtggcagta 60
gcagcacgga ggagcacaag ctgcctctg gctccctggg tctgccgttc ctggcgaga 120
ctctccagct ctactcccag aaccgaagg tcttcttcgc ctccaggctg aagaggtacg 180
gcgaggtgtt caagacacac gtgctgggtt gccctgcgt gatcttggcg agcccgagg 240
cggcgcggtt ggtgctggtg tctcaggcgc acctgttcaa accgacgtac ccaccgagca 300
aggagcgcgt gattggcgcg caggccctct tcttccacca gggcgactac cacctccgcc 360
tgcgcgcct cgtgaagggc tggcttggcc cggacgcgt cgcgggctc gtgcccagcg 420

tcgaggccgc cgtgg

435

<210> 10622

<211> 195

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-C9

<400> 10622

cccacgcgtc cgccctcttc gagagggatg tacatacctg gaggtactgg attacggagg 60
actcgattga ttcgttcaca catacctgca gatgtacgaa cccgcatata tttagatcga 120
acttctataa aaacttctgt ccaaacaccg aatgaaaatc catgatatag cttcttattc 180
acataaagtg agaaa 195

<210> 10623

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-B10

<400> 10623

agaagctgtg gcttaagggt gctaaacatg tcatcgagca agagaaaggt gtcaagagag 60
agaatataaa gaaagcaata gaattccttt cggagaccaa taacttgta aagattgagg 120
atatcttacc attcttccca gacttcgtat tgattgacga tttcaaagag gaaatatgca 180
aatctctgaa ggactacaac agccagattg agcagctcaa gcaggagatg gatgatgcca 240
cacgtggggc agataatatc agaagtgata ttggtgccct cgctcagaga tatacagtaa 300
ttgaccgtga gcaggattgt ggggtttgcc ggcgcaaaat attgactgtt ggaggggtgc 360
accaggtagg gagaagctat acatctgttg gacacatggc ccccttttat gtgtttccct 420
gtggacatgc ct 432

<210> 10624

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-H3

<400> 10624

gttcgaggcg ttaccctcct acacgcaacc ttctaccctc cagatccagg attgccgggc 60

tacttgactc gttaccttgc gcgccctcgg tgagctactt tgtttcgatt tagcgacaaa 120

tcagtttgct tcatgttgcg caggcttaga tctgaatgcc ggattcttcg tcttacggct 180

tgaatcgagc tgggaggctg tggatctgat cacgggaggt acaacatata cgcggtgatg 240

acgagttgga tcggcaccgg atagtctctg accgcaagac tatgttgatg cgttgggctg 300

atctgccgcy ttgttctgct tcaggttcta gagctagcga aatcgcaagg ctattatggt 360

tccttttcgga gcgcgtctga 380

<210> 10625

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-H4

<400> 10625

cccactcgtc cgcggacgcy tgggataaga ttgcatttgt tcccatctct ggttttgagg 60

gtgacaacat gattgagagg tccaccaacc ttgactggta caaaggccca accctgcttg 120

aggctcttga tcagatcacc gagcccaaga gaccctcaga caagcccctg cgtctccccc 180

tccaggatgt gtacaagatt ggtgggtattg gaactgtgcc agttggtcgt gtggagactg 240

gtgtcatcaa gcctgggtatg gttgtcacct ttgggtccaa tggcctgact actgaggtga 300

agtctgttga gatgcacca 319

<210> 10626

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-H5

<400> 10626

cattaactat ctctgagtaa gagtggccct tatagctgag agataatcaa cgagagcctg 60

atcgagtgcg tggactagtt gaaccagttc atgcatgctc gcattgtggc cttcatggtc 120

gacaactgct ccacaactgg ttgttcggga tctaggaaat ggtctccacg cttggattac 180

atcttgaccc accaggcgctc tgtgactgct gacaagactg caccgatcaa ccaagacctc 240
atcagcaact tcatgtgtga ccctgtgcac ggcgccatcg aagtctgccc tcagctgagg 300
cctaccgttg acatctcagt gaccgttgat gcagatttcg tgcgcccaga gcttcgacag 360
tatttataag cgtgta 376

<210> 10627
<211> 351
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3059-002-Q1-K2-H6
<400> 10627

cccacgcgctc cgggtactggg acgtncgctg cacctgaaga ggcagtcggc tgaccgggct 60
cacatgggag gggcgcgctc actgcgggct cgacgacgcc cgcaacaccg gtcgcctgct 120
ggcacttctg atgcaccggg gtttcaagtt ctccatcacc aacttactgg tgtggcaacc 180
tgccgacagt ccgcagtcaa ccgacgtcac ctgccacttc tccccggacc gctctacgga 240
cccagtcgctc gttcagctcc agcaccagca gcagcagcac aagccgaagg aggcgctggg 300
gtctcccgcg tcgcatgtga acccgctcgga cgccaaccca cggggaggga a 351

<210> 10628
<211> 430
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-002-Q1-K2-H7
<400> 10628

cccacgcgctc cgggtgcaaga agggcacatg acgccaagca aaagggacgc cggtcaggat 60
atggtaagcg taggggtacc agggaggcta ggctaccac caaggttctg tggatgagga 120
ggatgcgtgt gctgaggcgc cttctccgca agtatcgtga ggccaagaag attgacaagc 180
acatgtatca tgacatgtac atgaaggatc aaggtaacgc cttcaagaac aagaggggtgc 240
ttatggagag tatccacaag tccaaggctg agaaggccag agagaagaca ctttctgacc 300
agtttgaggc caagcgcgcc aagagcaagg cgagccgtga gaggaagatc gctaggaggg 360
aggagaggtt ggcccagggt ccacgagaaa taacaccacc tgtctcattc acagctccag 420

ctactggggc

430

<210> 10629

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-H8

<400> 10629

agctcatagc tatatcaatt gccatgccag cctagcttct tccgtgtctg tctttctcaa 60

taaatacatg ccaatcacat ggtgctctc catcttccaa gtcaccaacg caaattgcac 120

caagaaatcc atcgagaggg cgctgacagg ggaattaatg gcgtcgtcgt ctagcagcag 180

ccaccgccgc ctcatcctcg cagccgccgt cctgctctec gtgctegcgg ctgccagcgc 240

cagcgcgggg acctcctgcg tgccgggggtg ggccatcccg cacaacccgc tcccagagctg 300

ccgctggtac gtgaccagcc ggacctgccc catcggg 337

<210> 10630

<211> 136

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-A1

<400> 10630

cccacgcgtc cgcggacgcg tggggggccac tgaagcgaag tcgaagagcc atgagtctga 60

ttcgttggct ttgagggagg agatcagatt actgactgat aacctggagt ctattataag 120

tgaagctctg tcacgt 136

<210> 10631

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-A11

<400> 10631

ggtggagcct cattgaagcc tgaattcgtg gacatcatca agtctgccac tgtcaagtct 60

tcactctgct agtgttttga ctttcaatgc acctggatgc ttgtcgtact gaatgctgtt 120

gatcttttaa agctattgcc attttaccat ctcgttttgg tattctagct ccagtgcac 180
 gtttgtatat catcatctcc tgcgtatgtg cacagagtag tcatttacct gaatcatcct 240
 tgtgtaccct ttggaactgc ataattgaac tgcgctattc tagatctgtc 290

<210> 10632
 <211> 441
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-003-Q1-K1-A2
 <400> 10632

gtaaattggat tgttgttcca gctaccttta tcagtgtgc atcgctattc tgcattgagg 60
 aagtgggtgt tctaatacga gagccgttcc ccattgctagc tcttgatgcc ctgtgcaagc 120
 agctccacga cggattaaag gatgtgatgg agatgcagaa ctcggttcac tcgcgactag 180
 ttgccaaagac tgctacggac cacaggggca gtaggcgcga gaacaatggt tggcctagct 240
 ccaaaagaga aggagccaag attgattgag cagcaaggc cggtcgggtc gttgtgaatt 300
 tatttgaaga tagcattgca agcaatctgt ggcaaccaga tatccatgaa cgaactggag 360
 aacttgtgga cccatttcc ttctgcaatg gtatgtacct gtcctatgta aaatgcactc 420
 gctactgctt ggatagctac t 441

<210> 10633
 <211> 224
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-003-Q1-K1-A4
 <400> 10633

cgcaaatgat gatgccacaa tgcactgcg acgccgtctc gcagattatg ctgcaacagc 60
 agttaccatt catgttcaac ccaatggcca tgacgattcc acccatgttc ttacagcaac 120
 cctttgttgg tgctgcattc tagatagaaa tatttgtgtt gtaccgaata atgagttgac 180
 atgccatcgc gtgtgactca ttattaacaa taaaacaagt ttcc 224

<210> 10634
 <211> 413

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-003-Q1-K1-A5

<400> 10634

agacaaagag ggcaaaccce tatatgaaag gaggacccgt aatgatcaaa ttgctgaacc 60
 cgtttcttat ggcaaatca tgaatggctt ggtgccatat ttcagcgtcc aagtgcacgc 120
 caccctgctg ctgttctctc cccagccgga catgatcctg gaagggatgg ttgaaatgat 180
 tgggaaggag tcaattcatg ccattgtatt aggggttttc tcagtggcaa ttatgtctga 240
 agatattaag ttcaaattca aatggaaaag tgatggaagg aaatttgtga gcctcacaga 300
 taaaaaacat gtgattgaaa gaggaacaat gataaagttt tctgtcaaaa ggggtggatac 360

agaaatgagt ngatcatatta ctggatcttt aatccacact tacactggat gca 413

<210> 10635
 <211> 373
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-003-Q1-K1-A7

<400> 10635

caaacataaa gggtcggtaa atgctgttac tctcaagggt gctgacccat gcacgactag 60
 aattctcaat gatgactgcc ctgattgtga tgagtttctt gctgccgata ctttggaggg 120
 tgatgttctg gaggaaggta aaggccatct ggatacttat ggatcttctg catccataaa 180
 ggatcaaatt tcaaaactgg gtaatcaaag tactggctgt gccatagggt gcacaccctc 240
 aacttggcat aatagaaatt ccgagaagaa aagcataacg tctgtcaact tgattcctaa 300
 agagagccac aagagggata aaaattcact gttgcaatgt gaagggatta taaaatcgga 360
 aggtactatc ctt 373

<210> 10636
 <211> 325
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-003-Q1-K1-A8

<400> 10636

ggcatttttaa ggccctatgg atacacttac tctcatcggt gctgatgcat acgctgattg 60
cattgttggg gatgactgtg gttatgacta tgagtttctt gatatcaatg ctattgatga 120
tgatggatcat gatgaagggtg acgaccttaa ggatccttat ctatatgctg catatctaac 180
tgttcagcag ttagcactgc ttatttaaaa agctgaatat gccatacact accaactt 240
tatgtgtgat actggagacc atgctactac tggcgtatct ggtgaccatt ggtttgaacc 300
cgagagatac gcgatgtgta gactg 325

<210> 10637

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-H12

<400> 10637

cgtatgcgtc cgcccacgcg tccgcaatga atgaaatacc taatgttagg ccttcatagt 60
caatggagca gcttggataa agaaatttta catgtgcaaa cgggcgctag taacagtgca 120
tgcattccaa accaggctct ttgagcaatc tgagtaactg tagttacaga gtacaataca 180
tccaaagcac actatccttg aattacagag ctcaaaccac ctgaacttgt tattgtggac 240
ttttttcatc tcatcgctgg ttctccctcc tgcgtgcgta gcgggtcctg tcattgtacc 300
taggcctgtc tgcagccctc tgtggcacgg gctcgaccct tctctgcctc tcaggaggcc 360
tctgaacaat ctcaccgttg acaagcagtt cagctccgt 399

<210> 10638

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-F8

<400> 10638

gccacgcgta cgcccacgcg tacgctctgg tcttcattgt tgacctcaag gcagactaga 60
agaagatcaa ggctgtcgtc aagaagatgt atgacatcca ggcaaagaag gtcaaacact 120
tgatcaggcc tgatgggaag aagaaggctt acgtgaagct gactcccgac tatgatgctc 180

ttgatgtggc	caacaaaatc	ggaatcatct	aagtgtgca	ttaggcatct	gttgattact	240
agctcaatct	gttgtgtgct	agttctatgt	gaaaccagag	ttttggagct	atggatctca	300
atcgttccat	taccatgtgt	tatgcacac				329

<210> 10639
 <211> 288
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-002-Q1-K2-G1

 <400> 10639

gcgccagcgg	cgtcgcaacc	cgcagaccag	cacgcgaccc	tcatgttccg	gttaggggct	60
aaagcagagg	caccatcttc	tggagagatt	aaaaattacc	gcttttagatc	tgatgtgcct	120
tgtccacctt	ctcatactgc	tgtaggaggt	ccagcttcac	tccttcttaa	gcgcaaacc	180
ctgactgaag	aagagattga	ggctattatg	ctggggggct	ccatttgata	tcacctcata	240
tgaattggaa	attctaggaa	catcaataag	attgtatacc	cgaactta		288

<210> 10640
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-002-Q1-K2-G10

 <400> 10640

gcttcgtcgc	cgtctcctca	gctcgacgcg	gctatagctg	cactgaccgc	accgcgaccg	60
cgtgcccacc	ggcaccgctc	agtgtctagc	cgcgctcatg	gcgtcgcttg	gccagctcct	120
cctcgctgcc	ggcctggcct	tcctgggtgct	gctgctgggt	gccaggatc	acgggcgtgg	180
agagcaagcg	accggcggcg	gcccggccgt	tggagcagca	gccgccgccg	ctgctcctcc	240
cgcgcgggag	gctgtaatca	tcagccggca	ccagcattcg	cagccgtcgg	ccgcggcgat	300
ggcggagagc	aagcggctcc	ccatccctcc	gtccggggccg	tccactaagt	ggaactacga	360
ggcgaatcac	gagaagccgt	cgtcgtcgga	gtcgggctcg	ggccgncgnc	gnctcgggtg	420
gtggtggtcc	ccgtg					435

<210> 10641
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-G11

<400> 10641

gagctagttc agaagtatgt tggagaaggt gctcggatgg tcagggaact gttccagatg 60
gccggctcaa agagagggcat gcattgtatt ctttgatgaa gttgatgcaa ttggtggtgc 120
tcgttttgat gatgggggttg gtggtgacaa tgagggtgcag cgtacaatgt tggaaatagt 180
aaaccaactt gatggggttg atgcaagagg gaacatcaaa gttctcatgg ccactaatag 240
gcctgatacc ttggatcctg cacttctgcg ccctggtcgc ttggacagaa aggtggaatt 300
cgggctacct gacttggagg-geegtaceca-aattttcaag-atccatacac-gtaccatgaa-360
ctgtgagcga gatattcggt tcgagcttct ggcacggctc tgccccaact ctactggagc 420
tgatataagg agcgtttgca caga 444

<210> 10642
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-G12

<400> 10642

ctttatcgcc cttgttgtgt caacaatcgc cagccctatc tttggtgcag tcagtggtag 60
agggcacag ggcacaacag ctgcagcaac tcgtgctacc tgtgatcaac caagtagctc 120
tggcaaacct ttctccctac tctccgcaac aacaatttct tccattcaac caactgtcta 180
cactgaaccc tgctgcttat ttgcagcaac aactattacc atttagccag ctagctactg 240
cctactctca acaacaacaa cttcttccat ttaaccaatt ggccgcactg aaccccgctg 300
cttatttgca gcagcaaata ctactacat ttagccagct agctacagca agccgtgctt 360
ccttcttgac acaacaacag ttgctgccgt tctaccagca gtttgcggtt aaccccgcaa 420
ccctcttaca actac 435

<210> 10643
<211> 263

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-002-Q1-K2-G2

 <400> 10643

 aattccggtc gacccactcg ttcgatcgta cagtcaatac ttacactgca gttcagaata 60
 ggaaatacct cgaatccatc tggataagtg acacattcga tattttactg tagcatctat 120
 atcatcacca accgtgtcta tacaatacat acagatctca tccctgatgt tcaagatagc 180
 tactgaatcg cattctcaaa tattatgaac agattaataa tatcgctact tagatatgca 240
 gtcacatgtc catgttctca tac 263

<210> 10644
 <211> 460
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-002-Q1-K2-G5

 <400> 10644

gcgaatcgtg ttatgtcgat accgtgatgg ggtctcttaa ttagcgcacg gagtcagact 60
 cgtttgggca atctgaagat gtttagggat caacattacc tttgtgtacc tttgtggcct 120
 atgggttcgtg gatgcacagg gatcaatata agtacctttg tgcccatgg ttcgtggatc 180
 actgtgcatg tgttcttccg cgtctttgtt gttattttgg ctccatctgt atgatttaac 240
 aaaggaaggt tcattagatg ggccacattt acacactggt tatccacacg ggtccactga 300
 tactcttctt tttgccacca tgggctctgg ttctcttgct gcaatgtcag tgtttgaatc 360
 gaagtacaaa gaaggcctta ctagggagga gggaatacag attgtgtgcg aagcaatctg 420
 tgctgtgatt ttcaatgact tngntagtgg gagcaacgtg 460

<210> 10645
 <211> 346
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-002-Q1-K2-G6

 <400> 10645

gtaattgaca tagaatgtgg cacaccagtt gaagttgggtg gatttgattt gtcaaagtga 60
 aaaaataaga tggatatgctc tagcatggat agcatcatgg accctggcga tggaatacat 120
 acggatgtta ttctgttgt tcaagatggc tacagccttg cattttcaga ttttctcagt 180
 tctgatatac catgctaccc gtcaatgcaa tcagatcttc atgctggaat aagtgccaac 240
 gactcagagg gtattaccgt tatggatgat cctatatatg ggtctctcgc tgatattggt 300
 ttcattggaca tgtgggggca gccactcaa gactacgaca aattct 346

<210> 10646
 <211> 318
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-002-Q1-K2-G8

<400> 10646
 gttaatgact acccgtgtgt taacaaagtc tcgtgctgtc agtactttgg acatctgggc 60
 ttggaagtac ttggttccat ggatgatgga agatctgttt gctaggagag atgccagtgg 120
 tgtttacata gttcatagta gtaagaaggt caatgcatat gatgtggacg atatggatat 180
 gccattacat cgggtacatca atgatccagt tgcccatgag actattcata ctggctctac 240
 ctttcagatt actggtgtaa ccaacaactg atattttgat agagcacatg atgttcgaca 300
 ctgagtcagg atgcatgc 318

<210> 10647
 <211> 390
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-002-Q1-K2-G9

<400> 10647
 cccacgcgtc cgggccccat ggtagtgatt gtggtatagt gaatgtgaac atacctacta 60
 atggtgctga aaggggtgga gcatttggtg gagaaaaagc aactggtggt ggacgagaag 120
 cagggagtga ttcttggaag cagtacatga ggagggcgac ttgtacaatc aactatggga 180
 gcgagctacc tctagcccag ggaatcaatt ttggttaatc ctgcagaaat gttgcgcgtg 240
 gatctcagtg ttttctgcag acgtggatgc cgtatggaaa gaactgatgc aaccgcattt 300

gagatctcag cagacttgag cagcatttat tggcgtcagt tgtgaaactt aaactgcagg 360
agcatcttgt acataaataa aataagatgt 390

<210> 10648
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-H1

<400> 10648

gtcagtgaag caaagtctgt cgctgcagtt cagacgagga gatgccgcgg atccctctga 60
tcaggttacc gcaagcgggt aatcatgaca agtcccacat gcatacatgc cgctgccagc 120
aggacgtcgc aaccgcgcag accatcacgc gaccctcatg atccgggtag gggctaaagc 180

agaggcacca tgttctggag agattaaatg ttaccgattg agatctgatg agccttgtcc 240
accttctcat actgctgtag gaggtccagc ttcactcctt cctaagcgca aaccctgac 300
tgaagaagag attgaggcta ttatgctgga gggctccatt tgatataacc tcatatgaat 360
cggaatttct aggaacatca cttagattgt gtaccgggac ctattgactt tgacctctga 420
aagagtgtta tt 432

<210> 10649
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-H10

<400> 10649

cacatagacc atacatctca cttcgccaaa aaaattccgt caacagttga agtgataccc 60
atggcaaaac tactcttggg tttgctcctt gcccttgcta ttctagggac aacatcggct 120
gctggttgtg tacaagacgc ggaagacatg aaacgagagt gcaagcagtt tgagctattc 180
ccagcgaacc caaagttgcc accgtcggca gcatgttgtg ctgtgtggaa gagggcagat 240
gttccatgcc tatgcaaata tgtaacaag gaagtagaga aggtatgggt catggagaag 300
gttgtgtacg tcgccaacta ttgtaagagg ccgtttcaac ctggctacaa gtgccggagt 360
tatacagttc ctcttagtat gtaaaaagga gtggttggga catgtggtac tctctcctag 420

aactttaatt tgag

434

<210> 10650
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-H11

<400> 10650

caatcgccag ccctatcttt ggtgcagtca ttggtacaaa ccatcagggc acagcagctg 60
cagcaactcg tgctacctgt gatcaaccaa gtagctctgg caaacctttc tccctactct 120
cagcaacaac aatttcttcc attcaaccaa ctgtctacat tgaaccgtgc tgcttatttg 180
cagcaacaac tattaccatt cagccagcta gctactgcct actctcagca acaacaactt 240
cttccattta accaattggc cgcactgaac cccgctgctt atttgcagca gcaaatacta 300
ctaccattta gccagctagc tgcagcaagc cgtgcttctt tcttgacaca gcaacagttg 360
ctgcctttct accagcagtt tgcggctaac cccgcaacct tcttacaact acaacaattg 420
ttgccctttg tccaacttgc tttga 445

<210> 10651
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-F7

<400> 10651

gactccccga gtcgacaggc cacaaatccc aattccaaaa ccttttctcc gtcccatcgc 60
cggcgatctt ctccctcgcc gccaatggat ctctccgctg tccaggctgc cctctccgac 120
aagtcctact ccaccctcgc ctccctctgc gacgaacttc tctccaggc cgcgtcccag 180
ggattcacca ccgacgaatg gcctactct gtccacctgc ttgccacct ctacatcaat 240
gacctgaaca gcgcgcgggt cttctggaag tcgttgccgc aggaggtcaa ggacacgcgg 300
ccggagctcg ccgctgtctg gaggattggt cagtgcctct ggaaaagaga ttatgctggc 360
gtcaaca 367

<210> 10652

<211> 104
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-002-Q1-K2-E1

 <400> 10652

 aattcacttg tttatattat gtcagaatgg tcacaactac aaggtgaaat tcagggaggg 60
 taccagataa aggttacaac gactgcatta gctcttctca tate 104

<210> 10653
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-002-Q1-K2-E10

 <400> 10653

 gatggatgat gtctctgcgc tgataattat tggatcaatt tcgataatta ttagtagatc 60
 tatgagatat gccgcctgga agaggcgagg taagctgcag catgtaaaag tctgcgtgcg 120
 tcgacagcaa aaaagagaaa aaaagatgtg acatcctaga ggaggccttt gccatgatgg 180
 gtgcgctcgc atggcaagcc aggtattaat aaaaagatga ttattgtgtg ccgggggggag 240
 agatcgcacg ggggggtgatg tttttggccc cggggctctc tccctcatct tgttccgtgt 300
 tcctgtatcc gttgtttccg cgctgttg tccgctgcgc acgccggatt tttgcatcga 360
 gcacggagat ctacaacaaa aacatggagc tacgacgcga ctcccaaggt acaatcggta 420
 attatgttca aac 433

<210> 10654
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-002-Q1-K2-E12

 <400> 10654

 gattggagaa ctcgacacca tgaagtgct gatcgttgcc cttgctctcc tggcgctcgc 60
 tgcgagcgcc gcctccagta caagcggcgg ctgtggctgc cagacaccac cgtttcatct 120
 accgcctccg ttctatatgc cgctccggtt ctatctgccg ccgcagcagc agccgcagcc 180

atggcaatac cccactcaac caccgcagct aagcccgtgc cagcagttcg gatcctgcgg 240
 cgtcggcagc gtcggcagcc cgttcctggg ccagtgcgtc gagttcctga ggcaccagtg 300
 cagcccggcg gcgacgcctt acggctcgcc acagtgccag gcgctgcagc agcagtgctg 360
 ccaccagatc aggcaggtgg agccgctgca ccggtaccag gcgacatacg gtgtggctct 420
 gcagtccttc ctgcagca 438

<210> 10655
 <211> 365
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-002-Q1-K2-E2
 <400> 10655

cggacgcgtg ggttcagcct caccaaccaa ggcatcagct gctatcggtc tccaggccga 60
 gaaggacttg cagccttgga ttgctagaga tgacgaacaa ggtcagaaga tgtggagagt 120
 caaccagcgt atagtgaagc ttatagctga gcttatgagg aaccatgaca gccctgaagc 180
 gttggtgata ctgctagtg ccttcgacct tctacttcgt gctaccgatg gaatgctcgt 240
 cgatggtgaa gcttgtactt tgccacagct tgagcttctg gaagtgaccg ctcggtgctg 300
 ccatcttata atcgaatggc gagattcagg tttatcagtt gcagatggtc tttcaaatct 360
 gctga 365

<210> 10656
 <211> 369
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-002-Q1-K2-E4
 <400> 10656

aaccaattgc ccaattacaa caacaatcct tggcacatct aaccatacaa accatcgag 60
 cgcagcagca acaagcactg agccacctag ccgtggtgaa ccctatcgcc tacttgcaac 120
 aacagctgct tgcacccaac ccacttgctt tggcaaactg agctgcatac caacaacaac 180
 aacagttgca acagtttctg ccagcgtcga gtcaactagc catggtgaac cctatcgctt 240
 acctacaaca gcaacaactt ctttcatcta gcccgctcgc tatgggcaat gcacctacat 300

acctgcaaca tcagttgttg caacaacagt tgctgcaaca tattgtacca gctcttactc 360
agctagctg 369

<210> 10657
<211> 386
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-002-Q1-K2-E5

<400> 10657

atttgtcttg atatattgaa gaatgcatgg agccctgcat ggacccttca gtctgtttgt 60
agagcgataa ttgctctgat ggcccatcct gaaccagaca gccacttaa ctgtgattca 120
ggcaatctcc tgcggtcggg tgacatcaga ggctatcaat caatggcccg catgtataca 180
aggctggctg ccatgccaaa gaaaggtttag atgtagaaca tgtgccaaagc caagagccta 240
tgtcagtcga tatgttgta ggtttgcgtg gtgctgtctg tctgtgaact tgggtggttct 300
tgtttcctaa taagtcctaa ccattcatgt gtgtgtattc tgtattctgt atcccggtt 360
cccgatgctn ggtctgtgat gtaata 386

<210> 10658
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-E7

<400> 10658

cctcatcctc cacatctcca ccgcatcgga actaggaagg cgaagccgaa ggcgcggcgc 60
ggcgcggcac ggatcgagcg atggcggtgg cccctcctac ggcgcggcgc ctggagcagc 120
taagcagcag caagatgttc gacggcttca atctccgctt ccgccaccag agcgccaccc 180
ttggctgcgc catgactttc tccatctacc tgccccgcgc cccggcggtcc aaccttccc 240
tgctgtactg gctctcggt ctcacctgca ccgacgagaa tttcatcata aagtccggcg 300
cccagcggc cgccgtgcc caccgcatcg cctcgtggc acctgacacc ttcccacgtg 360
ggttaaatat tgaaagagag tcagacagct a 391

<210> 10659
 <211> 320
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-E8

<400> 10659

cagctagcta gcgttccctc ttcttcacct cactaacacc agcagctcga tcgctctgtc 60
 ctgcaataat ggccgctcgc tctctctccc agcagctggt cgcggcggcg gcggcggcgg 120
 tcttggcagc ggcgctgctg ctgctggcgg cggggggccgg gacggcgctc gcggcgggtga 180
 gctgcggcga ggtgacgtcg tcggtggcgc cgtgcctcgg gtacgcgatg ggcagcgcgg 240
 cgctgccctc cgcggcgtgc tgcagcgggg tgcgctcgct caacagccgc gcgtcgtcga 300
 cggcggaccg gcaggccacc 320

<210> 10660
 <211> 418
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-002-Q1-K2-E9

<400> 10660

ggaatccagt agcaacaata gagcaacaat ggagaccaag atattttccc tccttatgct 60
 ccgtgctctn tctacatgtg ttgctaacgc gacaattttc cctcaatgct cacaagctcc 120
 tatagcttcc ctttttcccc cataccttcc atcaattata gcttcagtat gtgaaaaccc 180
 agctcttcaa ccatataggc ttcaacaagc aatcgagca agcaacatac ctttatcgcc 240
 cttgttgtgt caacaatcgc cagccctatc tttgggtgcag tcattggtac aaaccatcag 300
 ggcacaacag ctgcagcaac tcgtgctacc tggatcaacc aagtagctct ggcaaactt 360
 tctccctact ctccgcaaca ccaatttctt ccattcaacc aactgtctac actgaacc 418

<210> 10661
 <211> 188
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-F1

<400> 10661

agaagatcaa gaactgaagc ttgccaaatc ggttccttgc atggttttgcg tcaacaagac 60
gtagaagttt caaagctttt gtagctgcc a taggctgctg caacgttttt aagtcggaac 120
tcttgtgttc ctgttcaggg tcttcagcat gacataaatc gtttcagaag tctagtaata 180
ttattatt 188

<210> 10662

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-F10

<400> 10662

cggttctcgtc gtgtgcctgg ctctgtcagc tgccagcgcc tctgcaatgc aggggccctg 60
cccttgcgcg gggctgcagg gcttgtacgg cgctggcgcc ggcctgacga cgatgatggg 120
cgccggcggg ctgtaccct acgcggagta cctgaggcag ccgcagtga gcccgctggc 180
ggcgggcgccc tactacgcc ggtgtgggca gacgagcgcc atgtaccagc cgctccggca 240
acagtgtgc cagcagcaga tgaggatgat ggacgtgcag tccgtcgcgc agcagctgca 300
gatgatgatg cagcttgagc gtgccgctgc cgccagcagc agcctgtacg agccagctct 360
gatgcagcag cagcagcagc tgttggcagc tcagggtctc aaccccatgg ccatgatgat 420
ggcccagaac atgcc 435

<210> 10663

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-F12

<400> 10663

cccacgcgtc cgcccacgcg ttgcccacg cgtcgcgcca cgcgttcgcc cagcgtccg 60
cccacgcgtc cgcgacgcg tgggccggcg gacgtcaaga aggtggccac caccttgacg 120
cgcgccatca aggtggtcgg cagccggcg tacgaggaga tggtaggaa ctgcatgac 180
caggatctct cctggaagg cctgccaag aactgggaga acgtgctgct cagcctcggg 240

gtcgccggcg gcgagccagg ggttgaaggc gaggagatcg cgccgctcg caaggagaac 300
 gtggccgcgc cctgaagagt tcggcctgca gggcccctga tctcgcgctg ggtgcaaaga 360
 tgttgggaca tcttcttata tatgctgatt cgtttatgtg atatggacaa gtatgtgtag 420
 atgcttgctt gtgctagt 438

<210> 10664
 <211> 302
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-F2

<400> 10664

cccacgcgtc cggctgcttc cattcaacca actgactctg tcgaactctg ctgcgtacct 60

acaacagcga caacagttac ttaatccatt ggtagtggct aaccattgg tcgccgcctt 120

cctacagcag caacaattgc tgccatacaa ccagttctct ttgatgaatc ctgtcttgtc 180

gaggcagcaa cccatcgttg gaggtgccat cttttagatt acatatgaga tgtactcgat 240

aatggtgccc tcataccgac gtgtgtttcc tagaaataat caatatattg attgagattt 300

ac 302

<210> 10665
 <211> 145
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-F5

<400> 10665

cccactcggt cggacgcctt cacttccaag ttctccctcg attctaagca gctgattgta 60

attaggggtg tgaaatgtac cattttttac tagatgatgg caattgttgt tgaacatata 120

tatagtggat gcactgggtg ggttt 145

<210> 10666
 <211> 336
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-F6

<400> 10666

gtgaaaaggt gggctcgtcc gagtctgccc tgctcgccaa gctgggtatc cgcccccttct 60

cgtacggcct ccaggtcacc agtgtctacg aggatgggtc cgtgttcagc cctgaggtgc 120

ttgacctttc cgaggaggac ctgattgaga agtttgccac tgggtgtctcc atggttgcct 180

ccctgtcact ggcgatctcg tacccgaccc ttgctgctgt gccccacatg ttcatcaatg 240

ggtacaagaa tgtgcttgct gttgctgtcg agacagacta ctcgtaccca catgctgaca 300

agatcaagga gtaccttaag gacccaagca agtttg 336

<210> 10667

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-D9

<400> 10667

cccacgcgtc cgagaaaagca caatagtgtg ccaacaatgg cagccaaaat attgggcttc 60

cttatgctcc ttggtctttc tgcaagtgtc gctaccgcaa ccattttccc acaatgctca 120

caagctccta tagcttcctt tcttccccca tacctctcac cagcgggtgc ttcagtatgt 180

gaaaacccaa ttcttcaacc ctacaggatc caacaggcaa tcgcagcagg catcttacct 240

ttatcacctt tggtccttca acaaccgtca gccctattac agcagttacc cttggtgcat 300

ttgttggcac aaaacatcaa ggcacaacaa c 331

<210> 10668

<211> 237

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-B5

<400> 10668

tcgaaaaaac aaaaacacaa aaaaaacaaa aaaaaaacia aaaaagaaca aaaacagaaa 60

aaaggaaaga caaaaacata taacaacaaa cacaagacaa ctaatactaa aaggcggcgt 120

cctgttttgc ggtgcccagc tgttgtcacc ctcagctccg agaccttctg cctgccatgg 180

tggcccataa ttcaaateca cttcccgagc tttcacatgc tcgtgaccgg aaaaacc 237

<210> 10669
<211> 137
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-B6

<400> 10669

gataaatgta ttaggatcat accatcatct caagcactaa tgcagattcc tgtttttcgc 60
tctcagtttc atcaatcacc atatacgaag taatgtccat gctgatgtta accattgtta 120
aatgccttt acctaac 137

<210> 10670
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-C1

<400> 10670

gggagacgca gaggtcccg cggcttcggct tcgtcacctt ctccacggag gaggcgatgc 60
ggaacgccat cgagggcatt aacggcaagg agctggacgg ccgcaacatc accgtcaacg 120
aggcccagtc ccgcggcggc cgtggaggcg gcggcggtgg gtacggtggg gcccggtggag 180
gcggcggtta cggcggtggc gggcgccgtg atggcgggcg cggctacggc ggtggcgggc 240
gtacggtggg cggcgggcggc tacggtggg gtggcgggcg ctacggcggt ggcaaccgtg 300
gcggcggtta cggcaactcc gacgggaact ggaggaactg agcgggtggg cccgcgcggc 360
caagttatcc tgttcgc 377

<210> 10671
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-C12

<400> 10671

cccaacttgt tgtggcaaat gctgggtgatt cccgatgtgt tatttcaagg ggtgggaagg 60
catacaatct atcgaggac cacaaccag agcttcgagc tgagagagaa aggataatga 120

aagcaggggg cttcatccat atgggacgag taaatggaag tttaaacttg tcaagggcaa 180
 ttggagacgt ggaattgaaa cagaacaaat tcctgcctcc cgagaagcaa attgtgacgg 240
 ccaatcctga tatcaatgtc gtggagctct gcgatgatga cgactttgtt gttgtagcat 300
 gtgatggcat ttgggactgc atgtcaagcc aacagctggt ggattttatc cacgagcgta 360
 taaacacgga gagcagcctg tctgccgtgt gcgaaagagt gctggacaga tgcttggtc 420
 catcaacgat cgct 434

<210> 10672
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-C3

<400> 10672
 cccacgcgtc cgccacgcg tccgatcttc gttcagccca ctgggagtgg agtgactcac 60
 tcgggtccat tctataaaac ctctgcccg gggctagggt ttctcccag ccgtcatcgt 120
 ttcggtccg cctcagccc cgcagggag aggtaagttc aggagacatc ttcgagaagc 180
 tgaaatggct cctaaagctg ctctgccaa gaagggtgat gccaagacc aggccttgaa 240
 ggttgccaag gctgtgaagt ctggggcagc caagaagaag accaagaaga tccgcacgtc 300
 tgtgacattt caccgcccc cgacctgaa gaaggctagg gacccaagt acccacgaat 360
 cagcactacc ggaaggaaca agcttgatca gtaccaaatt ctcaagtacc cccttaccac 420
 agaatcagc 429

<210> 10673
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-C7

<400> 10673
 ccctgctacg cgtagccaaa gtcaacggcg gcgctgccaa cacgctctcc aagatcaacg 60
 ctgtgcgcac tttgatcgcg cgcgtgctga ccgacatcta gcagaagcag aagtcggtgc 120
 tgcattgaggc gtacaagaag aagaagctga tgacgctcga cctccgacac aggaagaccc 180

gagccatcct caggcgccctc accaagcacc agctatgctt gaagaccgat agggaaaaga 240
agcgtgagaa gtattttacc atgaggaagt acgctatcaa ggcctagatc agtgaaagaa 300
cattcatgct gtcaagcttt gctcagaagg tacttgaatt tgagacaaat gtatctgcat 360
ccaagttcta tgcattctgat caactgcatg atgaaaaact agtacttttt gct 413

<210> 10674

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-C8

<400> 10674

ccctgctact cgtagccaaa gtcaacggcg acgctcccaa cacgctctcc gggatcaagg 60

ctgtgcgcac cttcatctcg cgcgtgctga ccgacatcta gcacaagcac aagtcggctg 120

ctgcatgagg cgtacaagaa gaagaagctg ctcacgctcg acctccgccc caggaagacc 180

cgatccatcc tcatgcgcct caccaagcac cagctatgct tgctgaccga taggtaaaag 240

aagcatgaga agtattttacc catgaggaag tacgctatca aagcctagat cagtgaagaa 300

acattcatcc tgtccagctg tgctcagaag gtacttgaat ttgacacaaa tttatctgca 360

tccaaattct at 372

<210> 10675

<211> 74

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-D12

<400> 10675

attcccttat ccaccactc gtccacacac actctataac tccatttcta tctcattttc 60

aatcaaccta tcct 74

<210> 10676

<211> 223

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-D5

<400> 10676
 cccactcggt cgccactcg ttcgcggacg cgtgggacg tagtatttgc atggcatgct 60
 ggtgatggta tttgtgcaat tactgcaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaataaa ataaaataaa aaagacgaca agg 223

<210> 10677
 <211> 312
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-002-Q1-K2-D6

<400> 10677
 gcatcccagc gaacaacaag gggaggaaca gcattggatg cctgttctgg cttttggcca 60
 ggatggttct gcagatgaag ggcactatcc tncctgggca caagtgggag gtcattggtg 120
 atttgttctt ctacagggac ccataggaag caaaggagca ggaggaggaa gctgctgttg 180
 cccctgagtt tgccgcaatc actgattacc aaggacctga ccatgggggt gttgaccagt 240
 gaacctttga tgtgactgcc ccgcctgtgg ctctactgt tctgatggg ggtgctgttc 300
 aagttccggt tc 312

<210> 10678
 <211> 322
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-002-Q1-K2-D8

<400> 10678
 cccacgcgtc cgcccaggca ggcaggtcgg cgaggagggc aggaagaccg aagaccgagc 60
 cgtgcggggg ctccgggacg gaacgggaca ggaccccaaa atctcagatc cttcctgccc 120
 gcccgcccggt gcccgtcgac gcgtcggttct tgccggccgc gcccacctt cgccctctcc 180
 tctccaggg gaatcggata cgccacaggc tgcgcgatgg tgctgtgggt cttcggctac 240
 ggctccctca tctggaaccc cggcttcgac ttcgacgaca aaatcctcgg cttcatcaag 300
 ggctacaagc gcacctttaa tc 322

<210> 10679
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-H6

<400> 10679

cccacgcgtc cggttgggtct ggatcagttc atcacgaaga acgctacact cgactaatga 60
 gaaggaggct gatgcatgcc caatcagggc aatgaagtcc tctgtctccc ctggttggtg 120
 tgttgctgtt cagtgcgaagg ttgcttccga ctttcccaag ctagtagaag gtttgaagcg 180
 tetggcgaag tccgaccta tgggttctgtg tacaatgga gaatctggtg agcatatcat 240
 tgctggagct ggtgagcttc atcttgagat ttgcctgaag gatctgcaag aggacttcat 300
 gggaggtgct gaaattattg tttctcctcc tgttggtgcc ttccgtgaaa ccgttcttga 360
 gaagtctgc cgactgtca tgagcaagtc acctaacaag cacaaccgctc tgtacatgga 420
 agcgcgcccc ct 432

<210> 10680
 <211> 365
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-H7

<400> 10680

cggacgcgtg cggagcgagg cgacgcctta ggcaccta atccgtcgaa tggatatggg 60
 gaccgttcca ggggatctga tcttgagat tgtgaggaag aataactcct ttctggtgaa 120
 tcatgttggt aactgcaagg ctactttcca cttaccaag ctactctaca gtttgaacag 180
 tatacacaag tacaatccta ttgttttata taccatggaa caatctcggtt acaatatcat 240
 tgttgaaact actgagcttt atctttagat ttgactgata gatctgcaag aggacttcat 300
 gggaggtgct gaacttattg tttatcctcc tgttggtgcc ttccatgaaa ccgttcttga 360
 gaagt 365

<210> 10681
 <211> 411

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-001-Q1-K2-H8

 <400> 10681

 catgcgggaa gatgttcaat ttgtcatgct tggatctggt gacccagagc ttgaagagtg 60
 gatgagatct acagagtcga tcttcaagga taaatttcgt ggatgggttg gatttagtgt 120
 tccagtttcc caccgaataa ctgccgggtg cgatatattg ttaatgccat ccagattcga 180
 accttgtggt ctcaatcagc tatatgctat gcagtatggc acagttcctg ttgtccatgc 240
 aactgggggc cttagagata ccgtggagaa cttcaaccct ttcggtgaga atggagagca 300
 gggtacaggg tgggcattcg caccctaac cacaggaaaa catgttgtgg acattgcgaa 360
 ctgcaatatc tacatacagg gaacacaagt cctcctggga agggctaattg a 411

<210> 10682
 <211> 441
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-002-Q1-K2-A12

 <400> 10682

 gcactcttac actagcagac ttagcacact tgaactgatg cttggttata ttacttattc 60
 tggggaagct acggtcgaag tgcgagtcac ttgcgggaca tggccagctg atggttttcg 120
 tttcatcttt gaggccaatg ccggtatagg acaatggatt gtgttgcttg agactgcata 180
 gactgcagat gttggtgata agatcagcct tgcacggcag gttgtttctg ttgactatca 240
 tagagataga gagctgaaag ttgtggccac cattacgaat ggttctgcta cctatacaga 300
 tgaaaagggc ttcaaaccct tgaaaatggg tgcaagctcc aaggaactta gtatcgggtg 360
 cttagggttg caagtcactg tttattggtc ctgcttccca tttgcaccgg tttagttagt 420
 ttaaataattt tttatttatt c 441

<210> 10683
 <211> 323
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3059-002-Q1-K2-A4

<400> 10683

gatggacttt caatgactat tcgacttctg gacccttccc ttcacgagtt ccttccagaa 60
gggaacgctg aggaaatcgt gcgtgaactg tgttctgaga cgggagccaa ccaggaggat 120
gccctcgcac ggatcgaaaa gctttcggaa gtaaaccgga tgcttggctt ccgtggctgc 180
aagcttggta tatcgtaacc tgagctaaca gaaatgcaag cccgtgccat ctttgaagct 240
gctatagcga tgaccaacca aggcgttcaa gtctttccag agataatggg tcctcttggt 300
ggaacaccgc angaattggg aca 323

<210> 10684

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-A5

<400> 10684

cggacgcgtg ggccgacgcg tgcgttcttg gatgatgtat gtcgtcaacc agaaaactgg 60
gttatggaat taccactatg aagcggatg cgtacgtcga cgagcacctg ttgtgcgata 120
tcgaaagaca gcatgtcagc gtcgacgaca tcgtctgtca cgacggcagc gtttgagcgc 180
attccgagag cttccccgag ttaaagcctg acgaggatgc tggatatcata aaggactttg 240
atgaacctga tactcttgca 260

<210> 10685

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-A6

<400> 10685

ctatgctaag atgactgaag aaattggaga gcaagtgcag attgttggtg atgaccttgt 60
cgtcaccaac ccactaggg ttgctaaggc tatcaaggag aaatcatgca atgcccttct 120
gctcaagggt aaccaaactg gatctgtgac tgagagtatt gaggctgtga agatgtcaaa 180
gcgtgcgggc tggggtgtga tgactagtca taggagtggg gagactgagg acactttcat 240

tgtgatctg gcagttgggt tgtccacggg tcagattaag actggagcac cctgcaaadc 300
agagcgtctt gccaaatata accagcttct taggattgaa gaagagcttg gcgctattgc 360
tgtctacgca ggtgccatat tccgtgcacc tgtggagccc tactaaacgg gcgggatgca 420
agtgccttta tgtctgcaca agtcctgtga aactgttta 459

<210> 10686
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-B1

<400> 10686

aatttttctt ccctttggct ccgtgaggtt ccggtgctcg ctgctcgcc tgagcttcga 60

tcgagcccg tggcgaggc aggcgcccga tcgccgctct ccgggagctt ccggggggcc 120

gtcggatgga gccgtacgag cggcggaaga gcggcggggc cgacgcccgc accggcaccg 180

gactggaaga ctcatgagc aggcctggggc tcggcgacga cggggaagca ggggaggaga 240

agcttccgga gcggccgggc gaggcggact gcgcctacta cctccgcacg ggcgctctgc 300

gctacggtga gcgctgccgc tacaaccacc cccgcgatcg gccggccccg gttaattggag 360

ttggaagac gcagttaca gtggagtacc cagagcgctt tgga 404

<210> 10687
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-B10

<400> 10687

agaaccgtct ccgcaatctc cccgcctccc tccgcctccc acccaatggc gtctctccct 60

aacggtggcg gcgccgagc ctctggctca tggcgcgcg gccctgtgga caaggaggtg 120

gacttcgcca actacttctg cacgtacgcc tacctttacc accagaagga gatgctctgc 180

gaccgctcc gcatggagc gtaccactcc gccgtcttcc gcaacgcgcc ccacttcag 240

ggcaaggtgg tccttgacgt gggcaccggg agcggcatcc ttgctatctg gagegcgcac 300

gccggggcca ggaaggtgta cgccgtcgag gcgactaaca tggcggagca cgcgcgcgag 360

cttgctcgcg ccaacggcgt cacggatata gttgaggtga tacagggcac cgtggaagac 420
gttgaccttc cggagaaagt gat 443

<210> 10688
<211> 265
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-B11

<400> 10688

cggcgaccaa ccctctccca acccgactag tcggactcgc agctccgccc caagtccagg 60
tccaagcatg gaagtcgcgg cggcgctcggc gaggcccgtc ctgcgcgtgg ctgccatctg 120
cggctcccta cgcaaggcct gcttcaaccg cggccttctc cgcgccgacg cggaggtgtg 180
cgaggactcc atccccgggc tccgcatcga cgagctcgac atctgcgacc tgcccatcat 240
caacaccgac cttgagaccg gcagc 265

<210> 10689
<211> 416
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-001-Q1-K2-H5

<400> 10689

cgcgagcgcc gcatggactt cgtgccggag aagtccgcgc tcgaggtcga agagatccgg 60
gtcgacaagg agaccatgga gatgctcgct gccctcggca tggccgacct gcccggcggtt 120
gagcgccagg ctgaggtctc caacgcccc gcctacggcc gcccgcagta cgggtggcccc 180
cgccgtgacc gcgttttagac ttcgcggtgg ttgcctcttg atcgactgc tattcgtagt 240
tgttgtccta ctatgctaaa cttcttttag atctttggtt gcatctgtgg cggttaagtt 300
ttgaacttgc ctgntatggt ataaattctg aagtgtttgg gtctgcgtgt gatgaacatg 360
atatgtatat tcttgcgctt tataaggtac tatgagatgc tcatatTTTT ttgact 416

<210> 10690
<211> 433
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-001-Q1-K2-G12

<400> 10690

cccacgcgtc cgcggacgcg tgggctacca ttgggggcag ttgtgacaac tcctgagatt 60
gcgagtgtgt tagctcaaaa aatccaattt aacacatttg gtggaaatcc agtttgttct 120
gctggtgggt tagctgtgct taaggttctt gacaaggaga aacgccaggc acattgtgct 180
gatgttggat ctcacttggt ggagcgtcta aaatcgcttc aggagaagca cgaaatcata 240
ggtgatgtta gaggaagggg actgatgctt ggggtggaac tcgttacgga cagaaaggag 300
aagaccctg ccaagtcaga aaccattgaa ctgtttgaga agctcagaga tctcgngta 360
ctagttggaa agggcgggtc gcatggtaac gtcttcagaa taaaaccacc gatgtgcttt 420

tcgaaggacg atg 433

<210> 10691
<211> 446
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-001-Q1-K2-G3

<400> 10691

cggacgcgtg ggtccagatc agcaaagcgg cagtgcgtag agaggatcgt cgaacagagc 60
agcatgaaga tggatcatcgt tctcgtcgtg tgccctggctc tgtcagctgc cagcgctct 120
gcaatgcaga tgccctgccc ctgcgcgggg ctgcagggct tgtacggcgc tggcgccggc 180
ctgacgacga tgatgggcgc cggcgggctg taccctacg cggagtacct gaggcagccg 240
cagtgcagcc cgctggcggc ggcgccctac tacgccgggt gtgggcagcc gagcgccatg 300
ttccagccgc tccggcaaca gtgctgccag cagcagatga ggatgatgga cgtgcagtcc 360
gtcgcgcagc agctgcagat gatgatgcag ctngagcgtg ccgctgccgn cagcagcagc 420
ctgtacgagc cagctctgat gcagca 446

<210> 10692
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-G4

<400> 10692

cttcaaggtc attcctgggc ccggtgagaa gccaatgata gttgttcagc acaagggggg 60
ggaggaacag tttgcagccg aagagatctc ctctatgggt ctcacgaaga tgcgtgagat 120
cgctgaagct taccttggca gcacgatcaa gaatgctgtt gtcacgggtc ctgcctatct 180
caacgactcg cagaggcagg ccacaaagga tgctgggggtg attgctggcc tcaatgtgct 240
gcgtatcatc aatgagccaa ccgctgctgc tattgcctat ggtcttgacc agaaggcaac 300
cagtgtccgt gagaagaatg tcctcatttt tga 333

<210> 10693

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-G5

<400> 10693

cccacgcgtc cgctcagcat tccaagtact tttgcgagtt ctgtgggaag tttgctgtga 60
agaggaaagc agttggaatt tgggggtgca aggactgtgg gaaggtgaag gctggtgggtg 120
cttacaccat gaacactgct agtgcggtca ccgtcaggag cacgatccgc cgcctgaggg 180
agcagactga agcatgatat agctctttat attattgggg tttcctgtag ttgctcttgt 240
caggcatggt gtgggggcct tctctagtgg aaatgtggaa tcaactgtact ggctgttttg 300
ccgagacaat gctccttata tttggtttat gctctaggat ctcaaagttg tgggtgttaag 360
atttgccctc ggttaccgtt ctg 383

<210> 10694

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-G6

<400> 10694

gttgcaacaa cagttgctgc aacaaattgt accagctctt actcagctag ctgtggcgga 60
ccctgctgcc tacttgcaac aactacttcc attcaaccaa ctgactgtgt cgaactctgc 120

tgcgtaccta caacagcgac aacagttact taatccacta gcggtggcta acccattggt 180
cgctgccttc ctacagcagc aacaattgct gccatacaac cagttctctt tgatgaaccc 240
tgccttgctg tggcagcaac ccatcgttgg tggtgccatc ttttagatta catatgagat 300
gtactcgata atggtgccct catagcggca tgtgtttcct aaaaataatc aatatattga 360
ttgagattt 369

<210> 10695
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-G7

<400> 10695

cacgaacaac cacatcaatg tgcaggccaa caacaacatt actaacaatg acaaggccgg 60
gtgcaacaac acgaacagag ccatgagcaa cactaaggac agagccatga gcaacaacat 120
caacaacaat tcaaggttca tgacaagcag taactaccat aacagtctca gcaatatcag 180
caggtccagg aaataatcga caacagcaac aatgtcattg ccaggagcag caacagacta 240
caaggtgcag gtataactac tatagcagta gctcaaactc aataaattgt catgaatac 300
taatgcagca gtgcagccct ttggtaatgc cttttctcca atcacgtttg atacaaccaa 360
gtagctggca agtattgcag caacaatggt gtcattgatc tatgcagatt gagccacaat 420
acattcacca agcaatctac aacatg 446

<210> 10696
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-G8

<400> 10696

cggacgcgtg cgttccagct tctgatcttg atcctgcact cggagccgta cacaagaggt 60
agtcggtaga acttgcagga gcggagcaga actaagtga gagaacagga catatggcta 120
cgcatgcggt gaaggtttac ggggtgggcta tctggccggt cgtatcgagg gctctgctgg 180
ccctggagga ggccggcgct gactacgagc tcgtcgccat gagccgccag gaccgccacc 240

accgacgatc ggagcaccta gccaggaacc ctatcaggaa ggtgccagtg ctcgaggatg 300
 gcgacctgac gcgcttcgaa tcacgcgcga tcgcaaggca tgttggtcgg aagcacaagc 360
 cgtagctgat gggcggcgcc atgctggaac aaactgtgat ggtggacgtg tggctggagg 420
 tgg 423

<210> 10697
 <211> 438
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-001-Q1-K2-G9
 <400> 10697

gcattcagaa acacacctag cgaagcgcac tagcaacgac ctaacaacaa tggcttccaa 60
 gacattatcc ctcttgccg tctcttgccct ttttgtagt gcaacaaatg cgttcattat 120
 tccacaatgc tcaactgctc cgagtgccat tattccacag ttctccctc cagttacttc 180
 aatgggcttc gaacaccag ctgtgcaagc ctataggcta caacaagcgc ttgcggcgag 240
 cgtcttagaa caaccaattg cccaattaca acaacaatcc ttagcacatc taaccataca 300
 aaccatcgca acgcagcagc aacaagcact gagccaccta gccgtggtga accctatcgc 360
 ctacttgcaa caacagctgc ttgcatccaa cccacttgct ttggcaaacg tagctgcata 420
 ccaacaacaa caacagtt 438

<210> 10698
 <211> 418
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-001-Q1-K2-H1
 <400> 10698

gagaccaaca agcaacatag aaagtggaat ccagtagcaa caatagagca acaatggaga 60
 ccaagatatt ttccctcctt atgctccttg ctctttctac atgtgttgct aacgcgacaa 120
 tttccctca atgctcacia gctcctatag ctccctttt tccccatac cttccatcaa 180
 ttatagcttc agtatgtgaa aaccagctc ttcaaccata taggcttcaa caagcaatcg 240

cagcaagcaa cataccttta tcgcccttgt tgtgtcaaca atcgccagcc ctatctttgg 300
 tgcagtcatt ggtacaaaacc atcagggcac aacagctgca gcaactcgtg ctacctgtga 360
 tcaaccaagt agctctggca aacctttctc cctactctnc gcaacaacaa tttctttc 418

<210> 10699
 <211> 447
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-001-Q1-K2-H10
 <400> 10699

cgtccggcca cgcgtccggc tatggcttcc gcggcgacg cccgcgcccc caccgacccg 60
 cttcccaagg gtgctgatgg atttttccgg gcagtaatct cgaacatgga aaaggtttat 120

ttgagcagga atcctacagc caaaaccatt ctggagcttg tacgatctta tgatggtgat 180
 catatttgct atgatcactt tgctttccgg acatttgggg tcaatgggta tggataaaac 240
 tcactttctg actttttcac tgattttggg tatttacctc gcgaagaact cagatttcca 300
 gctaaaaagc ttagggcact atggttttcc ccgccacta atgatggcta ctctggaact 360
 ggtacatatg gacctttgcc aaggatattc atttcagaac ttcttggtga tgagttgact 420
 actcaaagcc aggaaattat acataaa 447

<210> 10700
 <211> 372
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-001-Q1-K2-H11
 <400> 10700

gttcgacgac gtgctccgtg cggggcagct gctcatcgta cccagggct acctcgtcgc 60
 cagcaaggc gcacggagaa ggcttccagt acatcgcctt cgagacgaac cctgacacca 120
 tggtcagcca cgttgccggg aagaactccg tcctgagcga cttgccggcc gccgtcatcg 180
 ccagctcgta tgccatctgc atggaggaag ctgcagagct caagaacggg aggaagcatg 240
 agctggctgc gcttactcct gctggcagtg gcagctacca acaagggtcaa gctggcagcg 300
 cccaacagta ggcacaacct cagagtgatc tgccctgaata agtactcgta gactggtata 360

attaaacaaa gc

372

<210> 10701
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-H12

<400> 10701

cgtctgcttc gttcaccatc ttctctccta ctagaaagaa atttgcgag atctcatgga 60
gtagtggcag tattgctgct ctgattagtt tcttgctgag tgtgcatgaa atggctgtga 120
gatctgctga tgtttctttc cgggtgtagaa tggaatcgct tcccctaata ataacaataa 180
taatacatc tgaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240

aaaaaaaaa aaaaaaaaaa aaaaaaaaaac caaatctaaa agacacaaaa catacaaaga 300
aatacaataa acataataga caccaaaaaa aaatacactg aacaaaatta aaaaaaacta 360
agggggggcgg cgttttaagg ggtcacactt tttaat 396

<210> 10702
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-H3

<400> 10702

gtcagtaaag taaattctgt cgctccaatt cggacgagga gatgccgagg atccctctga 60
tcaggttccc caagcggaat ctcaaagccc catctccatc cgcgccagcg gcgtcgcaac 120
ccgcagacca gcacgcgacc ctcatgttcc ggtagggggc taaagcagag gcaccatctt 180
ctggagagat taaaaattac cgcttttagat ctgatgtgcc ttgtccacct tctcatactg 240
ctgtaggagg gccagcttca ctcttccta agcgcaaacc cctgactgaa ggagagattg 300
aggctattat gctggggggg ctccatttga tatcacctca tatga 345

<210> 10703
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-H4

<400> 10703

ctgcttagat attctgtatg actcgtggc accagcgatg accgtgagct ctgtctggat 60
caggatcctg tctatgttgt ctagtgcgcc agcaaagcaa cgcccggcgg acaatgaccg 120
ctatgttagg aactgccgca acgggaggtc gccaaaggag actagatggg ggttccatga 180
cgacacgggtg taatgatctc tgtggcattg cctgtcagcc ttctgtactg tgatatatct 240
cttcaagggg gagatgagat gatttaggcc tatttctaag caaccctcta ttggattgcg 300
aagcttacct tgctgtgggtg gtatgtaaat gagttgctca cgtgtcagtc tgggaatatg 360
tgttatcacc atcaatgata taatatagca tgaagcatga ttggaccctg cctaagtcac 420
tgaaacgagc tcaaa 435

<210> 10704

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-G11

<400> 10704

cccacgcgtc cgtctactcg tccgcccact cgtacgaaaa aaataaaaaa aaaaaaaaaa 60
aaaggaaaaa aaaaaaaaaa aaaaaataa aacacactaa taataaaaaa aaaaaaaat 120
aataataaaa aaaaaaagtg ggctccattt aaatgatcca agtttactta ccattacttg 180
caacgatata aatctactat atgggtgacct aaatttaata tcatgaccct ctttttaaaa 240
tattacaact cta 253

<210> 10705

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-E11

<400> 10705

cggacgcgta aggtcatcca cactaacgaa cgaactcttg ctccgatcac gagctagctg 60
agggcgacca tcgcggtgtg gctgaacagc atgaagactc cgcaagtggg gtccgtgctg 120

ctaattggctg cgctgctggc ttcgtccgcg tcggcggcga tcacctgcgg gcaggtgggg 180
tcgtcgctgg cgccgtgcat tccttacgcg acggggaggg ccagcgcgct cccctcgctg 240
tgctgcaacg gcgtcaagag cctcaacagc tcggcgcgga ccatctcgga cgtcaagcg 300
gcgtgccgat gcctcaagag cctcggcaac agcgtaaga gcgtcaacat gggcaccgtc 360
gccaccatcc ccggcaagtg cggcgtctac gtcgatttcc ccatcagcat gttcacccgac 420
tgc 423

<210> 10706
<211> 400
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-001-Q1-K2-E12

<400> 10706
agattcgtga gttcaaccaa attcggtttc gtatgtaaac gcatcgacat tgcaatcctc 60
caagatcgag tacgcgattc ttaogtcaac aaactcgcct acaccacaca caaccactcc 120
cttcacaacg ccttcaccac ctacaacgaa aaccacgctt ccaataccaa cctcgatcac 180
aatacacata agaacctagg ctatctatca gacacctatt ccactctata taccatactt 240
aacaccatcg aattcataaa ctgcattatc acatactaac ctatcaacaa cgtaaccag 300
gccagatct atcacaagca aagattccac gaccttgtgt accctctagc tectcttacc 360
gtgaaatacg tcaagaaccc acgaagtgct gtatgcaaaa 400

<210> 10707
<211> 423
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-001-Q1-K2-E5

<400> 10707
aattgccgtc acgactccct catcaggggtg acaatcagct gccctgagaa cgggaggagc 60
gccgcaggga agctcgctgc cctaccgagg tcgatggccg agcttctcgg actaggtgca 120
aagaagttcg gcatcaagcc tgccaaggct ctgacagttg atgggtgctga gattgatgag 180
gtggagctta tcagagacag tgatcatatt cttctcgtca gtgatgaatg ggtgccagat 240

gttgacaaaa ttatgcctaa acaataagtg agccagctgt agagctctta ttgcaatttg 300
 acatgatatg ggaaaacatg cccctgtgac cctgtgtgca tgtccacatt taaactgaag 360
 tgtagcttat gatggttttg aagctttatg atgcattcag cttggaaatg aattcgtact 420
 cac 423

<210> 10708
 <211> 83
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-001-Q1-K2-E6
 <400> 10708

atttcacttt gaaagatatt taatgatttt cgaaccatgt ctactgatta ctgcttgagc 60

aagattacaa tggtcttttg cct 83

<210> 10709
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-001-Q1-K2-E7
 <400> 10709

ctacttttga acaggagtac aagagtgata tcttttgaga gcgaggcatc ttgcttgagc 60
 ctgtccatgg tatcgtggag gctctgttta ggaggtacac agaacaagga atggatgaag 120
 agtcggccta caaaaacact gtcgagggca taactgggat catctcgaaa accatctcaa 180
 agaaagggat gcttgaagtg tacaactctt tgagcgagga aggcaaaaag gagttcaaca 240
 aggcttatag cgcacgtttt taccatgca tggatatact ctacgaatgc tatgaagatg 300
 tggcctcttg aagtgaaatc cggagcgtgg tgttggctgg gcggaagttt tatgagaaag 360
 agggcctccc agcttttccg atgggcaaca tcgaccaaac tcgcatgtgg aaggttggtg 420
 aaaagggtgcg ctc 433

<210> 10710
 <211> 328
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-E8

<400> 10710

gtgcgacgag gaggaagttg agaaagatgt gaaagctcgg acaaaagggg aactcggggc 60
tgcgaaaaca ttgtgtactc catttgagca gccagaactt ccagaaggta ccttgtgctt 120
tgcattctgga aagccagcaa agaagtgggc gttttggggc cgcagctact gattgccttt 180
gctgggagtc cttttggatt cagtagtgaa ccatgtaact tcgagatttt ggatacaaat 240
cggaatatcc atttacattg tctttacatc gacttgcagt tctgatgtca tcacagctga 300
aaaaagcca ttgattccag tggacaaa 328

<210> 10711

<211> 121

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-F1

<400> 10711

accacgcgta cgccaacaca ttggcgttta cattttccgt aacatttatg ccatccaggg 60
gttcggtaaa cttttatata ataacatcaa gcagatcatt ctgcaacaac taaaaatcat 120
c 121

<210> 10712

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-F12

<400> 10712

cccacgcgtc cgattcttca accctacagg atccaacagg caatcgcagc aggcatctta 60
cctgtatcac ccttgttcct ccaacaaccg tcagccctat tacagcagtt acctttggtg 120
catttgttgg cacaaaacat caaggcacia caactacaac aacttgtgct aggaaacctt 180
gctgcctact ctcagcaaca gcagtttctt ccattcaacc aactggctgc attgaactct 240
gctgcttatt tgcaacaaca actaccattc agtcagctag ctgctgccta ccccagcaa 300
tttcttccat tcaaccaact ggcagcattg aactctgctg cttatttaca acagcaacaa 360

ctaccaccat tcagccagct agctgatgtg agccctattg ccttcttgac acagcaacag 420
 ttgttgccgt tctacctgca cgctgc 446

<210> 10713
 <211> 365
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-F2

<400> 10713

gttcaaaaca gccaagaaa agagagatgc ctgtgttcat gtcgtgaaca cttgggatga 60
 attcggaact gctctgaata acaaaaagtt gatcttggct ccatgggtgtg atgaggagga 120
 aattgagaaa gatgtaaaaa ctccggacaaa aggggaactt ggagctgcga aaacattgtg 180

tactccattt gagcagccag aactttcaga aggtaccctg tgctttgcat ctggaaagcc 240
 agcgaagaag tggtcgttct ggggccgcag ctactgattg cctgtgctgg gattatttct 300
 ggattcagtt ctagggagtt atgtaacttt gaagtgtcgg atacaaattc aaaaattcat 360
 ttaca 365

<210> 10714
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-F3

<400> 10714

cccacgcgtt cgggcacacg cactacacgc acggcacgca gatacatata gagagagggt 60
 agctgtagct tgcacatcta tttaactaac taactaactg gctagctagc tcgatccgca 120
 gagcaaagcg aaagcagcaa gaagcaaagc aatggagaaac cctgcgagtg tgctagttct 180
 accagcgcag ttcaccaaac tcaccttcgg aaacctgtac atccgccggg ccgggccggg 240
 cagcagggag ataaccgagg agggcaggtg cgacctggac aagagatacg tgagtgactt 300
 ccccgctctac gacggccgcg gccccgacgc cagccttgtg gcccgcgctgc aggggatcac 360
 cagcgaaatc gggaacgcgc accaactgtt cgctcgttgtt ttcgacaccg acaggctc 418

<210> 10715

<211> 464
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-F4

<400> 10715

ccggaatcga ccgcatgcac tccacagcgt ccgttctagc tgccagttcg gctggggatg 60
atcctaattt ggctgatcaa ggtggtagcg gatagtctga tactggcatg tccaaaggaa 120
gctctcactc cttactaaag cgctctacaa accaacatac tactacatct cagtctgttc 180
ccacagatct gtcagcaatc aggctgaaga aagcaggact tgcgttctct gatggtatgt 240
ttttgcaaac tgtggttaat gttactttga agttctatgt aaaagtcagc ttaattcgct 300
tcacttaaaa caaagctgtc aattgctaaa gtaatactgt ctagatcaca aacctgaagt 360

gtgagtggct tatacgtatg tcctgtggta gtttgaacga gcacaatgtt agtgcgcaac 420
ttgttgacac ataacaggca acctgaagta tttcttttgt tact 464

<210> 10716
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-F6

<400> 10716

gctctactgt cttgaccgct ctgcactaat ctatcatcat caggcggagg gggtaccgtg 60
atgattcaga actttgtaca tgcgtcgggtg gatgatggta taacataatg tctatgcaca 120
agtaatacta ctacaaaccg atcaatgtat ctatgtatca tctatctcaa atgctagcta 180
gtatagcact acaaacatgt ctatatatat atagcatcat gctaataaat aggaatataa 240
gcatgatatc taacggctgc gtaattaatt ccaatcatgt gtgtaatatg tgggcaaata 300
gcaaaaacttt atagattcca a 321

<210> 10717
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-F7

<400> 10717

actacacgtc cgcgcacgcg ttcgagtcca gatgagaagt gacctggaat cttgctgggg 60
taccgctaca tactcgtact agatagtcac acgcgctgct aaactgttag gattacgcaa 120
acgcatcact acaacgccaa catccgagct tcttatcact agccgccgaa tacgcattcg 180
tatctgcctt agtactgatt catctagata ggacacagct ccagctgcta gagatcgaat 240
ggaccacgca gaaggactat tacatcatga acaatcttgt caacaagatc cgatctgtga 300
tatacgtctt ccatgttcac 320

<210> 10718

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-F9

<400> 10718

ctgttctacc catggcttga tagtaaattg atgcctcagc ctctaattct ccgcgctgaa 60
gtgtacaagg ttggtgtcac aactactttt tcgttcttga aagctagaga ggagctcggc 120
tacgtgcccc ttgtgaggcc ccacgaaggc ttggccgcaa cgatctcgta ctggcaagag 180
cggaagagaa tggagctgga tggcccgacc atatttactt ggctggccgt aacgatcggg 240
atgctggccg tgttttctgc cgctgcctc ccgccagtcg gcccgttgaa atgggtgctc 300
gacgtccaca tgtttgTTTT ccgctcgatg ctctgtgatcc ggctggtctt ggcggtagcg 360
atcgcaactgc atgctggcga agccgtgtac gcctggttct tggcgagaag ggttgacccg 420
aggaacgctg 430

<210> 10719

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-G10

<400> 10719

cggacgcgtg ggggagaact cgacaccctg aacgtgctga tcgttgccct tgctctcctg 60
gcggtcgctg ctgacgcctc ctccagtaca agcggcggct gtggctgcca gacaccaccg 120

tttcatctac cgctccggtt ctatatgccg cctccggtct atctgccgcc gcagcagcag 180
 ccgcagccat ggcaataccc cactcaacca ccgcagctaa gcccgtgcc a gcagttcgga 240
 tcttgccgcg tccgcagcgt cggcagcccg ttcctggggc agtgcgtcga gttcctgagg 300
 caccagtgc a gcccggcggc gacgccctac ggctcgccac agtgccaggc gctgcatcag 360
 cagtgtgcc accagatcag gcaggtggag ccgctgcacc ggtaccaggc gacatacgg 420
 gtggtcctgc agtccttct gc 442

<210> 10720
 <211> 436
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-001-Q1-K2-E10

<400> 10720
 atttactga atgctgctga tggtcgacta aagcagacaa gagaatagag ggaccagt 60
 caggagcaa tcgatcatat gatatttact ttacaagcaa aggacaatga cctgtcaaaa 120
 tctattgact catgtaacat ggaggccagt gtagtcaaga cttgcgtaaa tctcctcgag 180
 gatacatggc aacttcagtt gtcatacaat gaacagaatg aaactaaaac gaatgacgag 240
 ctggaaagat gcacaagcag ttttctgaag ttgaccaagc atcatctttc ctatatcaag 300
 gaagttctta gcccatacat tgagcggata cgcacatacg tggataattc ggcagtctta 360
 aactctaggg aggagtcaat agaacatgga cgggatgatg agatttctga gcagacaagt 420
 ccacaaaagt cccttg 436

<210> 10721
 <211> 280
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-001-Q1-K2-C4

<400> 10721
 cccacgcgtt cgaaaaaaaa tacaagtttt aatttttaaaa aaaacaaaat acacaaaggg 60
 aattggaaaa aatatatata acaatataaa aaaaaactaa attaaaaaaaa aaaataggcc 120
 catcattcta aagatccaaa ttttcgtaca cgttcattca atgtcataac ttttttataa 180

CCGAGCCAT GGCAATACCC CACTCAACCA CCGCAGCTAA GCCC GTGCCA GCAGTTCGGA

tttgacttaa attaaattaa ctggacctct atttacaact tctaaccttt taaaaccctg 240
tcttctccca acttaattac cttacaatat attccccctt 280

<210> 10722
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-C5

<400> 10722

gcatccaaca tcgcaatagt gtccaccggt gatgacaaag caaaggctgt tcacatagga 60
gtttctgaca tggccgaagg tcttgatgct cctacatcgc tgcctgctag aatgggtccag 120
ccaacgggacg ggaagctggt atggtttctg gacaaggcgg cggcattcatt ccttgactcc 180
aagaacgacg atgacgacgc ttgctacgag cgtcatgagt gactaactcc gaggatcctt 240
ggtcgttttg aagcgaatga acggagggtgt gtgtaagtag gtggttgctg atgatggaag 300
acgcgctggt ccccttttag ctcatgcat gggtaattt tgttctgagg gtttttagct 360
ccggaaatct gaaattgctc tcggtccttt tgcagtgagg tgatttaaag cgatgaaatg 420
tgtatgcgat gttgagt 437

<210> 10723
<211> 213
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-C6

<400> 10723

gatacgcgta ccgattgcac gtggatagga actcctatct gaacagactg acgaccgtga 60
acgtcttggt aatgtgacta gttatgtgat ctatcatcga cggttcgata cagatgcaca 120
gcgtgtgcat attgctgcaa acattatccc actctctcgc catgctgaag acaatgatcc 180
acgacgcatg actatgccaa ctaccaggag tta 213

<210> 10724
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-C7.

<400> 10724

gctgaacggt agtactagtt gttgatgcaa ataagcagcc agctgctgtc tggcccgggc 60
aatttcttcc attcaaccaa ctagcatcat tgaactctcc tgcctatgta cagcagcaac 120
aactactacc attcatccag ctagctgctg tgagccctgc tgccttcttg acacagcaac 180
aattgttgct gttctacctg cacgctgcgc ctaacgttgg caccctctta caactgcaac 240
aattgctgcc attcaaccaa cttgctttga caaaccagc agcgttctac caacaacca 300
tcattggtgg tgccctcttt tagattgctt atgagttata gttcaataat aaagtttttt 360
tgatgatggt tgcggcttcc cagagataag aaagtacatt tctagatt 408

<210> 10725

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-C8

<400> 10725

agctgatgca ggggtagcaa gggaagaaat caactacgtg aatgcccattg caacttgggc 60
acaagcaggt gacctgaagg agtatgaggc tattgtgcgc tgttttcgtc agaaccctca 120
actgacggtg aactcgacca aatcaatgac tgggcatctt atacgagcag ctggtggaat 180
agaagcagtt gcttctatac aagctataag aactggttgg gtccatccaa atttgaattt 240
agaaaatcct gaggacactg tggatgtggg catcttggta ggatcacaga aggagagatg 300
tgaggatgaac gtggcggttaa tccaactcat tgccttcgg tgggcacaac tcatcaattc 360
tgtttgccac ctttaaggaa ctgccatctt cctcatcgtc caaatagatt catatatctg 420
gatctccaca tag 433

<210> 10726

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-D1

<400> 10726

acccaatggtt tctcaatcaa aagacgtgga gaatggaaat gacaattctg tgaaatcctg 60
 cattagcaag cctgtgttga atggcaacaa atgtgccaac aaggaacaaa atgttccgtc 120
 ttgttgcctt ggcgtgtga caaatggaaa cgaggctgga aatgcagacg tggagtacat 180
 tgattctgag aatctagtgg atctaccaga tgttgatgca gctctatgta ccttagttaa 240
 aaggttggat tcaaaggact gggttatgac atgtgaagct ctcaacaatg ttcgtcagtt 300
 ggcgatgtat cacaaggaaa gattgcagga gctgctggag cctctagtcc ctcttatcgt 360
 gaaatctgtg aagaacccaa gaagtgtgt atgcaaaaaca gcaactgatga cttgtgctga 420
 catcttt 427

<210> 10727
 <211> 446
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-D10

<400> 10727

attgcgggaa aatggtcaca agctcctata gcttatcttc ttccccata cctctcacca 60
 gcggtgtctt caggatgtga aaaccaatt cttcaaccct acaggatcca acaggcaatc 120
 acagcaggca tcttaccttt atcaccttg ttctccaac aatcatcaac cctattacat 180
 caattacctt cgggtgcattt attggcaca aacattaagg cacatcaact actacaactc 240
 ttgctagcaa accttgctgc ctacgctcat caacatcagt tacctttggt gcaatttggt 300
 gcacaaaaca tcagggtcaca acatctacta caactcgtgc tagcaaacct tgctggctac 360
 tcttaacatc agcagtttct gccattcaac caactagctg cattgaactc tgatgcttat 420
 ttgcaacaac aacaactact accatt 446

<210> 10728
 <211> 312
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-D11

<400> 10728

ctgatagtct gagactgaga gagatagagg tgatgatggc ggtgcatgcg caggggacgc 60

gggtgccgct ggtcctggcg ctcttctctc tcttggccgg ttgcggcagc gaggcgcagc 120
 cgctgggtgcc ggcgctgttt acgttcgggtg actcgtcggt ggacgtcggg aacaacgact 180
 accttcacac catcatcaag gccaaacttcc cgccatacgg cagggacttc gccaaaccag 240
 tcgccaccgg gaggttctgc aatggcaagc tggcgaccga catcacgctc gacacgctgg 300
 ggttcactac ct 312

<210> 10729
 <211> 434
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-001-Q1-K2-D12

<400> 10729
 nccacgcgtn cgcagcaaca gcagtttctt ccattcaacc aactagctgc attgaactct 60
 gctgggttatt tgcaacaaca acaactacca ttcagccagc tacctgttgc ctacccccag 120
 caatttcttc cattcaacca actggcagca ttgaactctc ctgcttattt acagcagcaa 180
 caactactac cattcagcca gctagctggt gtgagccctg ctaccttctt gacacaacca 240
 cagttgttgc cgttctacca gcacgctgog cctaacgctg gcaccctctt acaactgcaa 300
 caattgctgc cattcaacca acttgctttg acaaacttag cagtgttcta ccaacaaccc 360
 atcattggtg gtgccctctt ttagatttct tatgagttat agttcaataa taaaagtttt 420
 tgtctgatgt ttgt 434

<210> 10730
 <211> 75
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-D2

<400> 10730
 gaatcgagag gccgaccacg gagggttaca agtgcagtgcc ccatacagca gtcacgggat 60
 cgtatccgctc gcagc 75

<210> 10731
 <211> 383

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-001-Q1-K2-D3
 <400> 10731
 cggaattccg gtcgaccacg ctccggcgcc ttttaccagc tttcgtggtc acttttctgc 60
 tccgttgcta caccgagacg caagcacgtc cgggtgactat gggcgtcagc gaggaagtgc 120
 gagtcgcaga gcttccgctt caagggacct tgctcgaggg acgccaactg cacaaacgta 180
 tgcctgacct aaggtttcac ggacggtgcg tgcataggcc tactacaccg gtgcttctgc 240
 accaaggact gctagtactg cctggcctcg ccttgtgacc tgcgtgtgca tagccgtagc 300
 ggatcactga aacatgcatg catgcgttac tgaatatttg gcagtaccag caagttaatg 360
 aattaaataa tatgtaatgg aac 383

<210> 10732
 <211> 235
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-001-Q1-K2-D4
 <400> 10732
 tcccgaattc gacggcacgc actcacgcga cccgtatcag caaagcgtca gtgcgtacag 60
 aggatcgctg aacagaacag catgaggatg gtgatcgctc tcgtcgtgtg cctggctctg 120
 tcagctgcca gcgcctatgc aatgcagatg ccctgcccct gctcgaggct gcaaggcttg 180
 tacggcgcta gctcacacct gacgactatg atgggcgccc gcctactcga cccat 235

<210> 10733
 <211> 439
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-001-Q1-K2-D5
 <400> 10733
 cccacgcgtc cgccaacaag caacatagaa agtggaatcc agtagcaaca acagagcagc 60
 aatggcgacc aagatatttt ccctccttat gctccttgct ctttctgcat gtgttgctaa 120
 cgcgacaatt ttccctcaat gtcacaagc tcctatagct tcccttcttc ccccatacct 180

tccatcaatg atagcttcag tatgtgaaaa cccagctctt cagccctata ggctccaaca 240
agcaatcgca gcaagcaaca tacctttatc acccttggtg tttcaacaat cgccagccct 300
atctttggtg cagtcattgg tacaaccat cagggcacag cagctgcagc aactcgtgct 360
acctgtgatc aaccaagtag ctctggcaaa cttttctccc tactctcagc aacaacaatt 420
tcttccattc aaccaactg 439

<210> 10734
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-D6

<400> 10734
gatcagcaaa gcggcagtgc gtagagagga tcgtcgaaca gaacagcatg aagatggtca 60
tcgttctcgt cgtgtgcctg gctctgtcag ctgccagcgc ctctgcaatg cagatgccct 120
gccccctgcgc ggggctgcag ggcttgtacg gcgctggcgc cggcctgacg acgatgatgg 180
gcgcccggcgg gctgtacccc tacgcggagt acctgaggca gccgcagtgc agcccgtggt 240
cggcggcgcc ctactacgcc ggggtgtggc agacgagcgc catgtaccag ccgctccggc 300
aacagtgtct ccagcagcag atgaggatga tggacgtgca gtccgtcgcg cagcagctgc 360
agatgatgat gcagcttgag cgtgccgctg ccgccagcag cagcctgtac gagccagctc 420
tgatg 425

<210> 10735
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-D7

<400> 10735
cagacgcgtc gttgcactac tgtgagtgat tatatgatta gtataggatg cttgtggggg 60
gctttctagc agttcaagct gatgcatcct gtaaatacta atgcgggtatg ctagagacta 120
tgggatgtct agaccctgaa ctgtaagggtg attccattgc ttcgtaccgg ttacagata 180
atctacgtct agtatgtctc tatcaactga tagtttgact ggtgagagta gtgcgggtaga 240

ccacctgaat tgtatggtat cattattgat tgacatatgt gagcctactc tgcagcctgc 300
 tgggtccagag tgctcaattg cagcagagag tacaggccgt gcactcacac gctactaaga 360
 gttagatagt ttcaacaaag ttagatctgc aaatcaggta cgc 403

<210> 10736
 <211> 142
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-001-Q1-K2-D8
 <400> 10736

cactaacgct acttctactt cggaaccgcc gacgctaccg gcgcctcata ttatcaggta 60
 ccgcacgagg tcgcggcctc cctatcggtg gtccatcgtg cgatggcgtg cgcacctacc 120
 gcgctgtgct acggtccagc gt 142

<210> 10737
 <211> 217
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-001-Q1-K2-E1
 <400> 10737

cccacgcgtc cgggtcgtgc gcggcaccta caagggccgc gaggggaagg tgggtgcaggt 60
 ctacggacga cgctgggtca tccacgtcga gcggatcacc cgcgagaagg tgaacggctc 120
 caccgtgaac gtgggcattc accccttcaa ggggatcgtc actaagctga agctcgacaa 180
 ggaaccgaag gcgctcctgg accgcaaggt ccgggggc 217

<210> 10738
 <211> 332
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-001-Q1-K2-C2
 <400> 10738

cccacgcgta cgttctccgt ccgcctcgg cactcgacgg ccgccggcac acaccgcgcg 60
 gtcgggagac aggaaccgga ggaacgagga tggaggatga ctcgccgctg acgaagacga 120

tgaaggggtgc ggtgacagga ctcgccgcgg ggaccatctg gggcaccgtc gtcgccacct 180
 ggtacgacgt gccccgtgtg gagcgccacg tcgcgcttcc tggccttata cggacgctca 240
 agatgtgcgg cacctacggg gccaccttcg tcaccatcgg gggcctctac atcggcggtg 300
 agcagcttgt gcagagccag cgcaagaagc gc 332

<210> 10739
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-A8

<400> 10739

cccacgcgtc cgccacgcg tccggagggg acgtgacgag atggaggaga ggatgatgga 60
 ggagcgggag gcggagcggg aggcctgcct ggcagatcat cagaggatgg cggagatggt 120
 ccagtacatg cagagccttg gcgccgcaca gggcttcgct ccgccacctc cattgttccc 180
 tgcagttgac cctgctatct tccatactcc tggccaatct ggggcgacat gcaacaaccc 240
 tcatgaaggg ttcagcccaa cgcagcacca gtcgaactcg ccacctccat gagagttatg 300
 tttctagtgt ttagacttca gaacttgctg tcaatactta tgttcttgat acttatgaga 360
 cttatgaact tgtgttgaat agttatgtca gagctcgaga cttatgagac ttatggctct 420
 tatacttatg t 431

<210> 10740
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-A9

<400> 10740

caacaagcaa catagaaagt ggaatccagt agcaacaata gagcaacaat ggagaccaag 60
 atggtttccc tccttatgct ccttgctctt tctacatgtg ttgctaacgc gacaattttc 120
 cctcaatgct cacaagctcc tatagcttcc ctttttcccc cataccttcc atcaattata 180
 gcttcagtat gtgaaaaccc agctcttcaa ccatataggc ttcaacaagc aatcgcagca 240
 agcaacatac ctttatcgcc cttgttgtgt caacaatcgc cagccctatc tttggtgcag 300

tcattggtac aaaccatcag ggcacaacag ctgcagcaac tcgtgctacc tgtgatcaac 360
caagtagc 368

<210> 10741
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-B1

<400> 10741

gcaacataga aagcacaata gtgtaccaac aatggcagcc aaaatatttt gcctcctgat 60
gctcgttggc ctttctgcaa gtgctgctac ggcgaccatt ttcccgcaat gctcgcaagc 120
tcctatagct tcccttcttc ccccgtaact ctcaccagcg gtgtcttcgg tatgtgaaaa 180
cccaattctt caaccctaca ggatccaaca ggcaatcaca gctggcatct tacctttatc 240
acccttggtc ctccaacaat catcagccct attacatcag ttacctttgg tgcatttatt 300
ggcacaaaac atcaaggcac aacaactaca acaacttggt ctagcaaacc ttgctgccta 360
ctctcagcaa cagcagtttc ttccattcaa ccaactagct gcattgaacc tctgttctta 420
tttgcaacaa caacaacta 439

<210> 10742
<211> 428
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-001-Q1-K2-B10

<400> 10742

ccttgacgaa ggaaaaggca gccttctcac cgtcggaccc ggcgatgcag cggcacgtcg 60
cctgcggccg gccgtcgggc acggacggct ccgacttttc ttaccgcatg gtcgtcgaat 120
cccggtagca gagggtcgcc gagggcagat cccgcctcgc gcgcctcatc ctcgtgcagg 180
cgctgcacct agtggccgga ggcttgcttc tattgctgtc gttgtccaag ggggcggcgg 240
tgaacaagtt cgccgtgctg tccatggccg cgggattcct ggctatagtg gtgggggaat 300
tagggcgaat gcggaccatg gcagtgtgc ttcggcttta cacaagcttg tcatcaattg 360

cggttgacatt ctctgtgacg tgcattatcc ggtcagaggt gttcttgagg ttatgaagca .420
naacacag 428

<210> 10743
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-B11

<400> 10743

acgcgtccgg ccaagcgtct cgcctcgtca gatcgaccgg gaagaaggga gcagaagcca 60
accggctcgt ccggccgttg ccgatcgtcg ctatggccgc cgtggaggtg tgcgtgaagg 120
ccgcccgggg gaacccccgac acgctcggcg attgcccgtt ctgcgagagg gtgctgctca 180

cgctggagga gaagaaggtc ccgtacgagg tgaagctcgt cgacctcggc aacaagccccg 240
aatggtttct gaacattatc ccagatggta aggtgccttt gttcaacggt ggagatggca 300
aatgcattgc tgattctgat gtaatcacc aagtcac 337

<210> 10744
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-B12

<400> 10744

gaacgagcaa gcaagccacc aaggaagggt gctagggccg gggcggatgg ggtgcatact 60
gcgggtgagg ctgcctcct tcttcgccgg cgcggtctgc gccgccacgg gcgggggcta 120
cttcctctac aaggactaca agctcgccaa cgattctatg gccctcaagg tgaaatgtct 180
ccaggactca actgacactc gctacgaagc cttgaaaag cgactcgtct ctttggaagg 240
tcagcaaagc actgaggctg caccggatgt ggatacgcca tcagattagt ctgttcgcta 300
cgagactttg atttacgtct gttttcgttt accccagttg tcttctcctt tgaaagcaag 360
tacctgacca acaacataat aatctaggat gcttcttttg actgcaagtc tgcaaagt 419

<210> 10745
<211> 315
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-B2

<400> 10745

gtcaacaata cccttaatat ctcccgtag actcttcagc agaacaagat cctgaagggtg 60
atccggaaga accttgtgaa gaagtgtgtt gagctcttct ttgagattgc tgaaaacaag 120
gaggactaca acaagtttta tgaggctttc tccaagaacc tcaagcttgg catccatgaa 180
gactcgcaga acaggggcaa gattgctgag cttctgagat accactccac gaagagcggg 240
gatgagctga ccagccttaa agattatgtg acgaggatga aggaggacag aacgacatct 300
actatatcac tgggtg 315

<210> 10746

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-B3

<400> 10746

aggacgcatg gctgacgacg agcatgctgc acatgaagta gagggcattg cacaagcggg 60
ttcagaccat accgagtata ggactatgac ctgcgcagtt gaacaagagc gatatgtcca 120
ggtcagctac tgaccatata catacggata ggttgagcag atacagaatc gaattggcac 180
tactgatgat acattagcag gaacattact gcgcctaggt gacagggctg ctgtgttaca 240
taatccgagc aactaatct ctcacgagac tagcaaagga tagaggacta aggttgacat 300
aggcacgagc tcgatacatc ctctggga 328

<210> 10747

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-B4

<400> 10747

cgaaggcaat ggtcgaggag ttattgaagg agtatgagaa cgtctgcact ctgcgagggc 60
ggatgccgat atcctctgac ctcagcaacc cgcggaactt cgtgacaaag atcagccggt 120

acaacaaggt ggtgaacatc cccaacagca tgacgatatt ggacgaactc ctgccccatct 180
cagtggagat ggcgaagagg aacctgcggg gcatctataa cttcaccaac cccggcgctcg 240
tcagccacaa cgagatccta gagatgtaca agcagtacat cgaccctagc ttcaagtgga 300
caaacttcac cctcgaggag caggcgaagg tcatcgttgc tccg 344

<210> 10748
<211> 373
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-001-Q1-K2-B5
<400> 10748

gagcattcag aaacacacca agcgaagcgc actagcaaca acctaacaac aatggctacc 60

aagatattat cctccttgc gcttcttgcg ctttttgcga ggcgaacaaa tgcgtccatt 120
attccacaat gctcacttgc tcctagttcc attattccac agttcctccc accagttact 180
tcaatggcct tcgaacaccc agctgtgcaa gcctataggc tacaacaagc gattgcggcg 240
agcgtcttac aacaaccaat tgcccaattg caacaacaat ccttggcaca tctaacaata 300
caaaccatcg caacgcaaca agcacaacag ttactaccag cactgagccc actagccatg 360
gtgaaccct gtc 373

<210> 10749
<211> 365
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-001-Q1-K2-B6
<400> 10749

cagaccatta gctctatcta ctccagagcg cataacaacc cgatcgacac catgaggggg 60
ttgctcgatg cctcgtctct cctggctctc gctgagagcg ccactacac gcatacaagc 120
ggcagctgcg gctgccagcc accgacgccg gttcatctac cggcgtcggg gcatctgcca 180
ccttcgggtc acctgccacc tactgtgcat ctcccacgc cagtccacct gacggcgccg 240
ggccacctgc caccgccggt ccatgtgccg ccgcccgttc atctgccgcc tgcaccatgc 300
cactacccta ctcaaccgca ccggcctcag cctgatccac agccacaccc atgctcgtgc 360

caaca

365

<210> 10750
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-B7

<400> 10750

caaattgcac caagaaatcc atcgagaggc cgtcgacagg ggaattaatg gcgtcgtggt 60
ctagcagcag ccaccgccgc ctcatcctcg cagccgccgt cctgctctcc gtgctcgcgg 120
ctgccagcgc cagcgccggg acctcctgcg tgccgggggtg ggccatcccg cacaaccgcg 180
tcccagagctg ccgctggtac gtgaccagcc ggacctgcgg catcggggccg cgctcccgt 240
ggccggagct gaagaggaga tgctgccggg agctggcgga catcccggcg tactgccggt 300
gcacggcgct gagcatcctc atggacggcg cgatcccgcc gggcccggac gcgcagctgg 360
agggccgtct agaggacctg ccggggtgcc cgcgggag 398

<210> 10751
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-B8

<400> 10751

cggacgcgtg ggcgcaaatt gcaccaagaa atccatcgag aggccgtcga caggggaagt 60
aatggcgctc tegtctagca gcagccaccg ccgctcctc ctcgcagccg ccgtcctgct 120
ctccgtgctc gcggctgcca gcgccagcgc cgggacctcc tgcgtgccgg ggtgggcat 180
ccgcacaaac ccgtcccga gctgccgctg gtacgtgacc agccggacct gcggcatcgg 240
gccgcgcctc ccgtggccgg agctgaagag gagatgctgc cgggagctgg cggacatccc 300
ggcgtactgc cgggtgcagg cgctgagcat cctcatggac ggcgcgatcc cggcggggcc 360
ggacgc 366

<210> 10752
<211> 417
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-C1

<400> 10752

gcaacatata aagcacaata gtgtaccaac aatggcagcc aaaatatttt gcctactgat 60
gctcgggtgt ctttctgcaa gtgctgctac ggcgaccatt ttgccgcaat gctcgcaagc 120
tcctatagct tcccttctta ccccgtaact ctcaccagcg gtgtcttcgg tatgcgaaaa 180
cccaattctt caaccctaca ggatccaaca ggcaatcaca gctggcatct tacctgtatc 240
acccttggtc ctacaacaat catcagacct attacatcag ttacctttgg tgcatttatt 300
ggcacataac atcagggcac aacaactacg acaacttggt ctagcaaacc ttgtgacta 360
ctcttagcaa cagcaagtgc ttacattcaa ccaactagct gcattgaact ctgcttc 417

<210> 10753

<211> 267

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-C10

<400> 10753

ccaccctctc gtccaaaaaa acatatataa aaataataaa taatatttat tataaattat 60
aaaaaaaaaa aaaaaaaaaa gaaaaatttg aaaaatttaa aaaataaaat aaaataataa 120
tataaataaa aataaaataa tataatataa ttatatataa aaaaataaaa aaaaaaaaaa 180
tccccccctc ttataaaatc ccaacataat tctctctcctc attcctattt tataattttt 240
ttaaatatcc cccaaaataa aattaac 267

<210> 10754

<211> 252

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-001-Q1-K2-C11

<400> 10754

agaagcgtgc tcctgggaag gctttcctcg atgccgttgc ttaagtgcgg atgcgaatcc 60
ttgggttttg ctgtagegta tcttactttg ctctgtggaa catgaatttc aagtgttttg 120

agggtattac agtgccttat gtgaacttgc ctatcttggtg ctgaacatcg gaatgtatcc 180
 tccgagtatg tttaatcgca ttaattntaa aaaaaaaaaa nnaataataa atataaaaaa 240
 aaatattata tt 252

<210> 10755
 <211> 444
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-001-Q1-K2-C12
 <400> 10755

gatcgcgctcc tcatttccca ccgnccttct gatgccagcg gtcaagggat tgttctgtca 60
 cttgaacatc caagatcagg agatgaagta gggatatctat ttattgatgg ccaactacaa 120
 gagatcaact ggtttaagga gcgttatggt gcttggttct tgggagatta tgtttgtgaa 180
 gatggtggcc tttattattg caccctgtt gatcccatct tcattttcct accaactttt 240
 gaagctgcac gtatgtcgaa cgataaggat ccaggaaaat tcagacaatt ggatgaaata 300
 ttgtatgttg agggatatcc tggttatcag cagctaata gaatgtagctaa ccaccatattg 360
 gaattgggtt gtgaagtaaa agaagtatct aacatgaagt tctttaggct ggacaactcc 420
 aaggtcttat cttggttggtg ctgc 444

<210> 10756
 <211> 410
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-001-Q1-K2-A7
 <400> 10756

caagaaccca tggccaaatg ttgatgctca cagtggagtt ttgctgaacc actttggagt 60
 atctgaagca cggattaca ctgtcttggt cggtgtttca agaagcatgg ggataggatc 120
 tcagctcatc tgggaccgtg cccttggcct gccacttgag aggccgaaga gtgttaccat 180
 ggagtggctg gagaactact gcaagaacaa ggctgcttga agcttttcac aaatgctgct 240
 ttttcccaac cttggctggt aataatttaa acgcgagtta tagaaatagt cattttccct 300

ttggccgttg aataacgcaa gagcaatatg ctcaggcgga agaattttgt atcttccgta 360
acttggtgaa catccagata cttgatctgc ggcaacaatg ggcagaagag 410

<210> 10757
<211> 255
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-F2

<400> 10757

ggcaaaaaca gcctaagaaa agagattcgc atttggtcat gtcgtgaaca cttgggggtga 60
atgcacaact gctctgaata acaaaaagtt gatcttggct ccatgggtgtg atgaggagga 120
aattgagaaa gatgtaaaaa ctcggacaaa aggggaactt ggagctgcta atacattgtg 180

tactccattt gagcagccag aacttccaga atgtaccctg tgcattgcat atggaaagcc 240
agcgaagaag tggtc 255

<210> 10758
<211> 146
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-001-Q1-K1-F3

<400> 10758

gtccgcgcac tcgtcctgtc acacgcacta ttcacactcc acacacatac atatagagag 60
agggnatgta natcttaaac gtgccttgaa cttactaact aactggctaa ctagctcgaa 120
ccgcatagca aatctaaagc tgcaat 146

<210> 10759
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-F4

<400> 10759

aggcagggtt ctagtgcgag tatggtcggg gttgatccta atttggtga tgaaggtgtt 60
agtaaagtgt ctgattctgg catgtccaaa ggaagctctc actccttact aaagcgtctt 120

acaaaccaac atactactac atctcagtct gttcccacag atctgtcagc aatcaggctg 180
 aagaaagcag gacttgcgtc ctctgatggg atgtttttgc aaactgtggg taatgttact 240
 ttgaagtttt atgtaaaagt cagctgaatt tgcttcactt aaaacaaagc tgtcaattgc 300
 taaagtaata ctgtctagat cacaaacctg aagtgtgagt ggcttatagg tatgtcctgt 360
 ggtagtttga acg 373

<210> 10760
 <211> 199
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-001-Q1-K1-F7

<400> 10760
 ggcactcgtc cgcttacgtt aacggttcca gatcaggagg gacctcgag cctccggcac 60
 tttcgcaagg tctctgcct ctgcagtcga cgcgctccgg ggctgggtggg atgacgtcaa 120
 ctgagtcgcc ccattgccag gacgcggcct tcttatecct ctccgacgtc tactcatttg 180
 actcctccgt agcactgat 199

<210> 10761
 <211> 236
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-001-Q1-K1-G10

<400> 10761
 cgatatacta aagtgttttg ttttcttate atcaccatgt ctttactttc aggccgcac 60
 aaactcaatc tctcagaacc cacataaaag atcattgctg agtacatatg ggttggtgga 120
 tctggatatgg acctcagaag caaagccagg actctacctg ggccattgag tgaccctgca 180
 aaactttcga agtggaaacta tgatgggtct agctatttat caagctctaa tggatg 236

<210> 10762
 <211> 393
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations

<223> Clone ID: LIB3059-001-Q1-K1-G11

<400> 10762

ccgcacgcgt ccggtcccca tggtagngtt agtggcatag tgaatgtgaa catacctgct 60
gatgggtgcat gaaattgggtg gagcatttgg tggagaaaaa gcaactgggtg gtggacgaga 120
agcaggggagt gattcctgga agcagtacat gaggagggcg acttgtacaa tcaactatgg 180
gagcgagcta cctctagccc agggaatcaa ttttggttaa tcttcagaaa atgttgcgcg 240
tggatctcaa agttttctgc agacgtggat gccgtatgga aagaactgat gcaaccgcat 300
atgagatctt agcaaaaactg agcagcattt attggcgctca gttgtgaaac ttaaactgca 360
ggaacatctt gtacataaat aaaataagat gtt 393

<210> 10763

<211> 126

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-G6

<400> 10763

caacattgct ttaacactag taccagctct tactcagctg gctgaagcaa acttttaatg 60
gctacttgca cctactatct ccattcaacc aactgactgt gtccaactct gctgcgtacc 120
tacaac 126

<210> 10764

<211> 54

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-G8

<400> 10764

cggactcgtg cggtcaagct gaagctccaa aacctgcacc ccgagccggg caca 54

<210> 10765

<211> 209

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-H10

<400> 10765
 cgcacgcgtt cgattagaac tatatcttct ggggatacaa attttagccg gggtaggggt 60
 tcaagtaagg attctgatcc ttttgatgga ctctatgttg gtgcatttgg cccttatggc 120
 atggaaatag tgcatttgag gctaaaattt tgacattgga atgaattgga caatgaaaac 180
 aaaacttctt atgtgggatt ctttgaata 209

<210> 10766
 <211> 196
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-001-Q1-K1-H4

<400> 10766
 ctgcttagag attctgtatg actcattgna acttccgatg accgagagct ctgacgaaat 60
 cggtaacctg taaatgacct ctacatcgcc agcaaagcaa cgcccggcgg acaatgaccg 120
 ctatgttagg aactgccgca acgggagggtc gccaaacgag actagatggg ggatccatga 180
 ctacacgacg aaaaga 196

<210> 10767
 <211> 175
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-001-Q1-K1-H6

<400> 10767
 cccactcgtc cggttggttt tggacttata atcacgaaga acgctacact cactagttag 60
 attgaagctg atgcatgccc aatcagggca atgaagttct ctgtctcccc tgttgtgcgt 120
 gttgctgttc attgcaatgt tgcttacgac cttcccaagc tagtacaatg tttga 175

<210> 10768
 <211> 171
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-001-Q1-K1-H8

<400> 10768

cgtgctgaag atgtcattta gcttgaagg atctggtgac ccagaggtag aagataattt 60
 taaagcgaca gagaccatcc ccaaggatga atttcgtgga tgggttagga tataagagct 120
 ccagaaaccc acccaacaac tgccgattgc aagatatagc taaagccaac c 171

<210> 10769
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-A1

<400> 10769

gatggtgttt tggaactaat gaaacatgca accgagtgtg gtttggaac aaataagggt 60
 atctcacttg atgtgtcaac aagggtggaat tcaacttttc tgatgttgag ggatgcttta 120
 tactataagg atgcttttac tcaactcaag cttgctgac gccgtaagta tgaacacata 180
 tctccaactc ctgaggagtg ggacaaggcc aaaatgttgt ttcatgcctt gaaaaaattt 240
 tatgatctga ctgagcttct gtccggtact ttatatccaa ctggcaactt ggtctacaaa 300
 agctttttgtg agattagaag tttgcttggg gactggtcta ctagtgaaga tatcaatatt 360
 cgtgaaatgg ctatttccat gagcaaaaaa ttgagaaat attggaacaa aagcaatgtt 420
 gctcttgc 428

<210> 10770
 <211> 235
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-F11

<400> 10770

agggctttca gtcttatgga gtgcccccta acacgcacgc tatgaagaaa gctgaagctg 60
 ctttcaatga taactgacct gcgaatatta agctagtcgc tctccactt tatgttttga 120
 ccacacagac ccttgacaag gatcaaggca tttcagttct cactactgca atcaaggcat 180
 ggacagcata gattgaaaag tgctaagtga aagtatgtat gaatgaacaa ccaag 235

<210> 10771
 <211> 429

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-001-Q1-K2-A11
 <400> 10771

```
ccgatggctc atcgcggttct cctcctgctc tctctcgctg tggccgcaca gggctaggca 60
caaggggtcga cgcggaggac cgggtgatcc ggcagggtgt tcttgggtga gatgacaacg 120
atctggagct gaacgcggag tcccacttcc tgagcttcgt gcagcgggtc ggcaagtcct 180
acaaggacgc cgacgagcac gcgtagcggc tgctcggttt caaggccaac ctgcgccgcg 240
cgcgccggca ccagctgctg gacccgtcgg cggagcacgg cgtcactaag ttctccgacc 300
tcacgccggc agagttccgc cggacctacc tcggcctccg caagtcccg cgcgctctcc 360
tcagagaact cggggagtcg ggcacgagg cgcctgtgct tcccaccgat ggtctncccg 420
acgatttcg 429
```

<210> 10772
 <211> 451
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-001-Q1-K2-A12
 <400> 10772

```
attccccgtc cagccactcg tccatcacat taccaacata cccactttgc taaaccacct 60
taaaagatat cttagggtca tcaaagaact tttgcatgca ctggactcat ttgctcaaag 120
tacaacttgg ttatcacacc tataaacttg aaccttttca atgttaacct tgcaatggct 180
tttacaggcc tgtatcatct ttcactgaag atcatgcaac attacttatc ccatgataaa 240
gatgctgctt cacaactgta atcatatata atgacaacaa tcaaagaata actgattgta 300
aatcctgcat cctatgagtc tactcttgat ttttttttct tgtgcaagca aacaataact 360
tatctttcat gtttgtttct ctgttattct gaaatcttga gcattctaatt tttaaaatct 420
ttccccaaaa ataaaaacca attaaatcat t 451
```

<210> 10773
 <211> 421
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-A3

<400> 10773

```

gcgtcagcgg acgcgtggaa aaaaaaaaaa aaaaaataaa aaaaaaaaaa aaagaaaaaa 60
gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaag gggggccctt 180
tttaaagttt caaagtttaa ttacccttaa tttcaaatta aaagtttttt aataggtcca 240
cttaaataaa attcattggc cacgttttta aaaattttta attggaaaaa ccttgggtta 300
accaaattaa atccttttga aaaaaatccc cttttcccaa attgggttaa taccaaaaag 360
gccaaaaaaa atggcctttt caaaaatttg caaatcttta atggcaaatg gaacccccct 420

```

t 421

<210> 10774

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-A5

<400> 10774

```

cccacgcgtc cgagggcatg tggcgtaga gggatctgaa ccctagcggg cgtccgtggg 60
tccagatctg tgacccgacc ttctcgacgc ttcggtgaca tgagtgcctg gaaatctagg 120
gaggcgaaaa ggtcagagtt cagtcatgtc atgcttgatt tgagttctgt gccagatcaa 180
agcaagtagt agtacgtgag aagttaacca tgaacagaca ccctttttct ctttgtgtat 240
cacagatttt gaaacttgct gagagggaaa aacaaattta tggggaaaaa atgtgacact 300
gaaagccatt tgcttccagc agcttaagaa ttgttcggtt agatgcaact gaagaggggtc 360
ttcaagtaag taaatcaact actacaatgg ctactaaaa atggtcgaca ggacagtttt 420
aggaccttat tggt 434

```

<210> 10775

<211> 259

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-A1

<400> 10775

gatggtgttt tggttactaa tgaaacatgc aacctagtgt ggtttgaaa caaatagggtg 60
tatttcaatt gatgtgtgaa caagggtgaa ttcaactttt ctgatgttga gggatgcttt 120
atactataag gatgctttta ctcttctcaa gcttgctgat ctgcgtatgt atgaacacat 180
atctacaact cctgatgagt ttgacaatgc ctaaattttg ttttattcct agaaaataag 240
atatgttcta acttaactt 259

<210> 10776

<211> 177

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-001-Q1-K1-A10

<400> 10776

ccggtccac ccacgcgtcc gcagtcgcca gccctatctt tgggtgcagtc aangctacaa 60
accatcaggg cacagcaagt acattataat gaagctaagt ctgctcaatc aaggggcgctc 120
tgcaaacctt tctccctact ctcagcaact acaatttctt ccattcaacc aactgtc 177

<210> 10777

<211> 157

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-A11

<400> 10777

cccggctcgc acccagcgt ccgcggtatgg ctcatcgcgt tctccgcctt cctctctcgc 60
gtcggccgcc gcggtctgga cgatcgaaaa cacggaggac ccgcccattcc agcggggggg 120
ccccggagga gatgacaacg agctggagcg gaacgcg 157

<210> 10778

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-A3

<400> 10778

ggaaccacaaa attacacacaaa aaaaaaaaaa aaaaagacaaa aagacacacaaa aaaaaaaaaa 60

aaaaaaaaaac aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagcaat aaaaaaaaaa aaaacacacaaa 180

aaaaataaaaa aacacacacaaa aactacacaaa caaacacacaaa caaacacacac aaaaaaaaaac 240

aaaaacaaca aaaataacaa aaaaaaaaaa aaataacacaaa taaaacacaaa acaaaaaata 300

aaaacacacac aacacacacaa aaaaaaaaaa acaaacacaa caacacacaaa aaaacacacaaa 360

aaaacacacaa caaacacacaa caac 384

<210> 10779

<211> 185

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-A5

<400> 10779

ggcactcgtc cgatggcatt tggcactaga gggatctgaa ccctaccggg cgcccggcca 60

ttctgaactg agaccggacc ttctatactc tgcggagaca tgagtgcctg gaaaactata 120

gaggcgaaaa ggtcacagta cattcatgta atgctcaatt tgagtactgt gccatatcaa 180

agcaa 185

<210> 10780

<211> 120

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-A6

<400> 10780

ggttgaacaa tggcataaat atgaactcta aacacacacaaa aaaaaaacag gaaaaggtaa 60

aattaaaaag gacacacacacc caacacacaaa acagacacaaa aacaaggccc cccccctaa 120

<210> 10781

<211> 225

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-A7

<400> 10781

gaccctcgcg tccgcgagat cccatgggtca aattttgact tccacagcgg agttttgctg 60
agcgactttg gactatttga agcgacggta ttacactgtc ttgttcgggtg tttcaagaag 120
catgggggata ggatctcagc tcactctggga ccgtgccctt ggctgccac ttgagaggcc 180
gaatagtgtc accatggagt ggctggagaa ctacttcaag aacaa 225

<210> 10782

<211> 51

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-001-Q1-K1-B10

<400> 10782

gcgctcttac actatcatatc ttagcactca agacactgat gctnggatat c 51

<210> 10783

<211> 164

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-B12

<400> 10783

agaaccctct ccgtaatctc cccgccatcc cccgcctcca cccaatggcg tctctgccga 60
attgtaacag cgccgacgcc tctatctcat gcggcacacg ccctgtggac tatgatgtgg 120
acttctccaa ctacattttt cacgtacacc tacctttacc acca 164

<210> 10784

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-B5

<400> 10784

gagcattcag aatcacacta agcgattcgc actatcaaca acctaacagc gaatggcgac 60

caatatatta tccctccttg ctcttcttgc tctttttgcg agcgcaacaa atgcgtccat 120
tattccacaa tgctcacttg ctcttagttc cattattcca cagttcctcc caccagttac 180
ttcaatggcc ttggaacacc cagctgtgca agcctatagg ctacaacaag cgattgcggc 240
gagcgtctta caacaaccaa ttgcccatt gcaacaacaa tccttggcac atctaacaat 300
acaaaccatc gcaacgcaac agcaacaaca gttcctacca gcactgagcc acctatccat 360
ggtgaaccc 369

<210> 10785
<211> 283
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-001-Q1-K1-B7

<400> 10785
caaattgcac caagtaaatt catcgattgg ccgtcgacag gggaattaat ggcgtggtcg 60
tctagcagca gccaccgccg cctcctctc gcagccgccg tctgtctctc cgtgctcgcg 120
gctgccagcg ccagctccgg gacctcctgc gtgccggggg gggccatccc gcacaaccgc 180
ctcccgagct gccgctggta cgtgaccagc cggacctgct gcctctggcc gcgcctccca 240
tggccggagc tgaagaggag atgctgccgg gagctggctg aca 283

<210> 10786
<211> 195
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-001-Q1-K1-B8

<400> 10786
gggactcgtg ggctcaaatt gcaccatgaa atccatcgag aggccgtcgg caggagaata 60
aatggaaagg gcctcgagca gcaccaccg ccgcctcatc ctgcgagccg ccgtcctgct 120
ctccgtgctc gcggctgcca gcgccagcgc caggacctcc tgcgtgccag ggtgggcat 180
ccgcacacac ccgct 195

<210> 10787
<211> 456
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-C11

<400> 10787

agaagcgtgc tccttggtaa gctcaactca atgccgcagc taaagtgcgg atacagatgg 60

tttacaaaaa acttttagaca atcctaatta acgggcgaga acatgaataa caagatgaaa 120

gaaggaataa caatgccaaa agtaaaactta accaaataat aacaaaacaa aaaaaaagta 180

taaaaaaaaa tttaaataaat aatgtaagaa aacttaaaaa aaaaagaaat aaaaaataat 240

ataaatataa ataataatga taaatataat aaaaaaaaaag aaaatataaa taaaaaaata 300

aaataaaaca ataataaaaa taattaaaaa ataatatata taaacataaa aataaataaa 360

aaaataaaac aaaaataaaaa aatataataa tatatatataa ataataataa tataaaaaaa 420

aaaaataaaa aaaataagaa atacaataaa taataa 456

<210> 10788

<211> 63

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-C6

<400> 10788

ggcactcaaa ccgtacagct caaagagtcg aaccccgcac agaacagacg gacaacgagc 60

aac 63

<210> 10789

<211> 55

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-D1

<400> 10789

ccaacaaaga acaaaacgcg ccaccaagaa gcccaagcac aaaaacaaaa ggaaa 55

<210> 10790

<211> 51

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-001-Q1-K1-D10

<400> 10790

cccacgcgtc cggctaattgg cacattanaa tcacccatag tttgtntgat g 51

<210> 10791
<211> 52
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-D11

<400> 10791

gtgcgttgcg tcgtgagtcg ccggaatcaa caccgacagt ctgagactga ga 52

<210> 10792
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-D6

<400> 10792

gatcatcaaa gctgcagttt gtagtttga tcgccgaaca gaacagcatg aagatgggtca 60
tcgttctcgt cgtgtgcctg gctctgtcag ctgccagcgc ctctgcaatg cagatgccct 120
gcccctgcgc ggggctgcag ggcttgtacg gcgctggcgc cggcctgacg acgatgatgg 180
gcgccggcgg gctgtacccc tacgcggagt acctgaggca gccgcagtgc agcccgttgg 240
cggcggcgcc ctactacgcc tgggtgtgggc agacgagcgc catgtaccat ccgctccggc 300
tacagtgtctg ccagcagcag atgatgatga tggacgtgca atcctg 346

<210> 10793
<211> 160
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-D7

<400> 10793

cggatctacc cttcacattc aaaactcaaa acccgaacag cacaccaggc cagtgtcaaa 60
cttaaaagga ccccaacctt aaccaaccgc cgcataccaa tgccatatca gcctacacta 120

cgacgaccaa cccacaaaac aaaagaaccc accacagaaa

160

<210> 10794

<211> 113

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-E11

<400> 10794

cggacgcgtg gggttattca cactaactaa cgacctctg ctccgatcac gagcgggagg 60

atttcaacga tggcggctgt gcttaacatc aggaagacgc cgcaggtggt ggc 113

<210> 10795

<211> 266

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-G9

<400> 10795

agacccacgc gtacacatcg cctctcactt gcacagatac atggacaccg cgccgtgaaa 60

caccatgtgt cgagctcggg ccatgtcca gtctgagctc ggagttctgc gcacccatct 120

cccccggtc cttgcagctc ggatccctgc acgtggagtc ttatccatag ccaagatcgt 180

tcttgctcgc tgtcgatgcc taatacgacg tcagctatcg ctacagctat ggcgctatat 240

cgatcaggag tccgtatact atgcgc 266

<210> 10796

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-H10

<400> 10796

ctccagttag ccgagggagg agacggggac ggtgggcaga gtgacacgcc ggacgcctct 60

ccgccccgct ccggtccaga ttgcgcgcac ccacccatgg cgctcgccgc ttcccaccac 120

ggcctcctgc ctttcgcccc cgctgtcacg cctaccccggt cacgggggga cctgcgcttg 180

cgcgccgcgc gccctctgtc ccgccccggc cggagaatgt gttgccaatc tatcaactca 240

gctaatgcgt tgggagcttc ttcaacgaca tctgatgagg cagtcccagt cccagttgta 300
cagatagatc aggactcaga ccgtgatgcg accattgtgc agctaagttt tggagatcga 360
ttggaggcac tacttgacac gatgaaagca ctc 393

<210> 10797
<211> 382
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-060-Q1-K1-H12
<400> 10797

cgcacgcgtc cgtccacgcg ttcgcttaga cgccgccgtc gcccaaagaa ggacggggac 60
~~tccggaaacc aggatgggag aactgaagag aaggatgggc tttgagaagc agatcctgag 120~~
atccggcacc ggtccaagc cgataaaggg ccagaaggtc accgttact gcaccggcta 180
cgggaaggat cgtgatctgt tcaagaaatt ttggagcacc aaggaccctg ggcagcagcc 240
attcagtttc agcattggtc aaggttcagt gatcaaagga tgggacgagg gagttatgac 300
catgcaagtg ggtgaagttg ctcgtataca gtgcacgcct gattatgctt atggagccgg 360
cgggttccca gactggggaa tt 382

<210> 10798
<211> 415
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-060-Q1-K1-H2
<400> 10798

cccacgcgtc cgcggacgcg tgggtctggc ttatcgagtt gcacaagtag aggagggggc 60
ggaaaagaaa gtagttgcag gatcacatta gcactgacgg ccatgctgtc tgcacgtttt 120
ccggttgctg tctgcaggat cgccatcgcc gtgctcatag tttctaccct gtcacatctat 180
gcggaggcga ggtactactg ctacgccccg tgcaaggact gccgaactg cagcagctgg 240
tgcaagggga aagggtaccc caagggcggg cggtgccacc cgaaggacgg cggcggcgac 300
atcgtgttct gctgctgca cagggcagac gtcataagc tgctagtttc agcagatgcg 360
aatgcgattc tctgatggac tggcaaacaa ataaacgggg ctggacgcat tgaga 415

<210> 10799
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-H4

<400> 10799

accggttcgg aatataccgt cccaagcgtc cggtagcgcg tgtgcggacg cgtggggttg 60
agctttcaga accacaccta gcgaagcgca ctagcaacga cctaacaaca atggctacca 120
agatattatc cctctttgcg cttcttgccc tttttgtgag cgcaacaaat gcgttcatta 180
ttccacaatg ctcaacttgct cctagtgcc a ttattccaca gttcctccct ccagttactt 240
caatgggctt cgaacaccca gctgtgcaag cctacaggct acaacaagcg cttgcggcga 300
gcgtcttaca acaaccaatt gcccaattac aacaacaatc cttggcacat ctaaccatac 360
ataccatcgc aacgcaacag caacaacaat ttctaccagc actgagccaa ctagctgtgg 420
tgaaccctgt cgcctacttg caacagcagt 450

<210> 10800
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-H5

<400> 10800

ctgaaaagat ccgatcatgc gatgaagcag actctttag tgcaaaatgt aattctcggc 60
tccagccttt gaagtcacaa atgccaaaat cgctaggcag ctgttgggcc actgcctgtt 120
gttggcaggg tggttgacgt ctgggcgacg gatatgtgat ctgatccaca tggcatatcc 180
ttgtagaata tgcaggaagg actaccgagt gcaactttca tggcctgaac cacatcctgg 240
atgaaagatt gctgaagggtg accttatgat tcttgaaaca gggatgtttg acaaatttgt 300
aatgtacttt tgggctttaa gtatcttatt atcttaagct acctagtaat cagcacttgt 360
accttaaggt gtgcgttatg gcaagttctt ttagagggct tgtttggact agcaccat 418

<210> 10801
<211> 342

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-060-Q1-K1-H6

 <400> 10801

 ccgacgcgtc cggccacgcg tacgactacg cgtccgatgc gtctgacgtg acctagaggg 60
 ctgcatccat caagcaacga ttgatgttat ctattggagc ttaccagcag tcttgcgact 120
 tgtcacctgt ggtagaataa ccgtagtact tagtggtatg agcaacgcgt agcatatata 180
 tatatatata tatccactgg tgtataattg aaccgtagta taactggcct ggatttaact 240
 agaacatagt gtatacctgg aataattgga gcttgagtct cgaaccagga gctatccgca 300
 catgaacttt tgggctttaa gtatcttatt atcttaagct ac 342

<210> 10802
 <211> 386
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-060-Q1-K1-H7

 <400> 10802

 ccggcgctta cgcttacgcc tccgccttcg cgtccgatgc ggctgacggg acggtggggg 60
 gctttttcca tgaagcaacg attgacgtta tctattgtag cttaccagca ctcttgtgac 120
 ttgtcacctg tgtagaataa accgtagtac ttagtgtatg tagcaacgcg tagcatatat 180
 atatatatat atatcacta atgtctaatt gaaccgtagt ataactgcc tgaatttaac 240
 tagaacattg tatatacctg gaataattgg agcttgagtc tcgaaccagg agttatccgc 300
 acataaacta ataatactat aagtatctaa tcaaattaag cttacctaataatcagcact 360
 agtaccttaa tggtcgcgtt atttca 386

<210> 10803
 <211> 416
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-060-Q1-K1-H8

 <400> 10803

 gatccttttg accaggatga ctgggttcac tatgctaaga tgactgaaga aattggagag 60

caagtgcaga ttgttgggtga tgaccttctc gtcaccaacc ccactagggt tgctaaggct 120
atcaaggaga aatcatgcaa tgcccttctg ctcaagggtta accaaatcgg atctgtgact 180
gagagtattg aggctgtgaa gatgtcaaag cgtgcgggct ggggtgtgat gactagtcac 240
aggagtgggtg agactgagga cactttcatt gctgatctgg cagttgggtt gtccacgggt 300
cagattaaga ctggagcacc ctgcagatca gagcgtcttg ccaaatacaa ccagcttctt 360
aggattgaag aagagcttgg cgctattgct gtctacgcag gtgccaaatt ccgtgc 416

<210> 10804
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-H9

<400> 10804

ggttttacga aggaccagga cttagattat ttgtttgttg aagctgcacg gcgagagtta 60
agagtaataa ttgagaacaa gcaacgcctt gttctggcgc atgctacatc aggttacaag 120
catagtgtaa aggaagtttt ggacacacca ggtgtgatgg ctctgataaa agatacaact 180
gcagcacagg aggttcgagc tctgcaggat ttcttcaata tgcttactaa tgagtcagct 240
cgtgcttggt atggaccgaa tcatgttgag tttgcactgc aacagtttgc tatccagact 300
ctattaataa ctgatactat gtttcggaac gctgacattg ctactaggca aacgtacgtg 360
aagttgggta gaagatgtca aggaaatata gttgcacagt acacatat 410

<210> 10805
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-G8

<400> 10805

gcataccatt ggctatcatt gcaatagcta gtttgttggt tgaaagatca cgtgaggagt 60
ggtcagaagt gtacgacaag attggtcatt ggaatgaaga caatacaaca aagataatgt 120
catacagcta ctatgatctg cctccttctc tcaagccatg tctgctgcaa ctaagcatat 180
atccagaaga ctacctcatt aatgcaaaag ttgcaatatg gatgtggata ggtgaaggtc 240

tagtccatct tgagaaacaa gatgttagcc tatttgaggt tggagaaaga tacttcaagg 300
agcttgtgaa tagaagcatg atccagccga gagaggacaa atatgatcgg tttatacaag 360
agtttcgtat tcacgacatt gtgtttgatc tcactctgtaa gtt 403

<210> 10806
<211> 252
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-060-Q1-K1-F10
<400> 10806

aggcgccacg atgctatctt cttgtagacc gacacaagag aaagcatgtg gcttccaact 60
ctgcgatgca ctaacgaaag caagattgct atcactgcag cattagggta tgatagttac 120
cttgtcatgc tacatgtggc tggccttggc ataagttgcg aagcttccag tgtggtcact 180
gtcatagaca cgacgtccac ggacgatgcc cttggcctgc atatgctggt gtacgaacga 240
tggaatgacc tg 252

<210> 10807
<211> 375
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-060-Q1-K1-F11
<400> 10807

cccactcgtc cgcggactcg tgggttatta tcacgcacgt aatctaagca tcgaaggcga 60
gtgcgtgcgt gttgggtggg ggtacgcgca tcgcggtttg acgcgcgatg cattgataat 120
aattcgtgcc ccgaggtacc aataagcaac gatgagagaa gcattccacc ttgcatttac 180
actccccctt taggcttatt gagcccaatc cacatgtgtt gaggtggatt gaggggtgtt 240
aacgaggctt tagggctttt gaggtggatt ggaggtgttt aatgaggctt taggggtttta 300
tttggtttga aagggattag agtggattaa atttcctttt atacaaattt gtgtacgaga 360
tctaattctt cttaa 375

<210> 10808
<211> 418

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-060-Q1-K1-F2
 <400> 10808
 gtgaaaaccc aattcttcaa ccctacagga tccaacaggc aatcgcagct ggcacgagc 60
 ctgtatcacc cttgttcttc caacaatcat cagccctatt acaacagtta cctttggtgc 120
 atttattggc aaaaaacatc agggcacaac aactacaaca acttgtgcta gcaaaccctg 180
 ctgcctactc tcagcaacag cagtttcttc cattcaacca actaggttca ttgaactctg 240
 cttcttattt gcaacaacaa caactaccat tcagccagct acctgctgcc tacccccagc 300
 aatttcttcc attcaaccaa ctagcagcat tgaactctcc tgcttattta cagcagcaac 360
 aactactacc attcagccag ctagctgggtg tgagccctgc taccttcttg acacaacc 418

<210> 10809
 <211> 411
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-060-Q1-K1-F3
 <400> 10809
 ggtgtgagcc acacggttcc aatctatgta agatacacac tttctcatgc tattctgcgt 60
 gtggatcttg cggggcgtga cctcaccgac cacctaata gaatcctcac agagagaggg 120
 tactccctca ctacgagcgc tgagcgggag attgtcaggg acataaagga gaagcttgcc 180
 tacgttgccc ttgattatga acaggagctg gagactgccg ggagcagctc ctctgtcgag 240
 aagagctacg agatgcctga tggtcaggctc atcaccattg ggtcagaaaag gtttaggtgc 300
 cccgaggtgc tggtccaacc atcccttggt ggcaggaat cgcctggcgt acatgaggcc 360
 acgtacaact tcatcatgaa gtgtgatgtt gatatcatga acgatttgta t 411

<210> 10810
 <211> 414
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-060-Q1-K1-F4
 <400> 10810

cccacgcgtc cggagaagac gtctctctcc tctcggcgtc cccgttcccc aacctcgggt 60
ctgctgcctg cctgcctgcc tgctgcaaa aaggagtttg tcatggcgtc taagcgcac 120
ctcaaggagc tgaaggacct gcagaaggac cccccacat catgcagtgc aggtcctgct 180
ggtgaggaca tgtttcattg gcaagcaaca attatgggac cacctgacag tccctatgct 240
ggtggtgttt ttttagtgaa cattcatttc cgcagatt acccctcaa acctccaaag 300
gtttctttca agacaaaggc cttccatcct aatatcaaca gcaatggaag tatatgcctt 360
gacattctca aagagcagtg gagccctgct ttgacaattt ctaaggctct gctc 414

<210> 10811
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-F5

<400> 10811

accaagagtg tcatactaaa catatcttca gatcatttaa ttgcatgcac taaatagggt 60
caaactggat caatatcacg aaaggacgca tcatctttgc cctgtcatta tgcattctaa 120
ttaggcacat gtgcactctg aattccttag gctatgctgc gaggtacagc tactagactg 180
gacatacgct ctagttagtg acctgtaact gagctcagca caatcagagc gttagcagct 240
gaatgaaact gaacaggccg tcagcgatct gtccttaaag ctgatgctca tataatgatg 300
ctgatgcgac cttaacactg acacaggata aagcacttaa gctgaaacct gtaccagaca 360
ctcacaatgt atgctgcata gatagctagc t 391

<210> 10812
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-F6

<400> 10812

cccacgcgtc cgcccacgcg tccggtggaa tgataatctc atcgtctggc gggctcgatt 60
cttcactca ctctcggtgg agttcacaaa gtcccagatt attgcctcaa tacctggatt 120
tttcttttgc ttgtggtatg cgtcaaagaa gcattggctt gcaaacaatg tcctgggatt 180

ggctttctgt attcagggga ttgagatgct gtcattggga tcatttaaaa ctggagccat 240
tctcttgggt ggactttttg tgtatgacat tttctgggtg ttcttcactc cagttatggg 300
cagtgtggct aaatctttcg atgctccaat aaagcttctg tttccaactg cagacgctga 360
acggccattc tccatgcttg gccttgggtga cattgtaata cctggtatat tcgtc 415

<210> 10813
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-F8

<400> 10813

gtgagccgcc ccgccgctcc tcagccatcc tctccatctc ggtgtcacac actccggata 60
cgcacctacg agagtcgagt gacagcgagc gagcgagcga gcgaagccat ggctctccgc 120
accctggcat cgaagaacgc cctatccttc gcgctcggcg gcgcggcccg gccgtcggcg 180
gcgtccgcga ggggggtgac gacggtcgcy ctccccgacc tctcctacga cttcggcgcg 240
ctggagccgg ccatctcggg ggagatcatg cgctgcacc accagaagca ccacgccacc 300
tacgtcgcca actacaacaa ggct 324

<210> 10814
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-F9

<400> 10814

gttcgtgtaa atgctaata tgaagaggat ggagaggata tgacatatgt agagacggca 60
aggcgttctg ttgactcaac atcatctagc tacaagaagc ggaagaaaga gtgtatagga 120
aagatgactt catcaagtga cctgtttttt gatgtgttca atgaagtgag tggatgatctc 180
aaggttgcca ccatgtcaat tggaaaaatg gctgcaagct atggatcgcg aggcacccaa 240
cctagagaag gcaagagatg aggatacact gcacaatcta agagagaagg cgatcaatga 300
ggtactgaga ctccaattta ctggctcaga agttatcaaa gcatctgggtg tgtttggttag 360
gatgccagat caaatggcga ttgcgtttgc acttccagaa ccaactgagga gggaataca 419

<210> 10815
 <211> 355
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-G2

<400> 10815

gctgaaaatc gtacctgcgg aggatcggga agagacctta actctatgcc acttgaaggc 60
 ggaacagaaa aacagagccg ccgaacctta gataaactgt ctcatgtgca tgttcctctg 120
 tgtgctgtta gatttatata tactcacacc aaggagttgt tgtttacact ttacagccgt 180
 tgttggtgcaa aagttggacc tctgttgtgc agaagataag tctgaagcct ttttcattgt 240
 tcttttttga cataatggag aagctggggg agtgcttgtc tctggaggac ctccaattca 300
 gtgaccgagc actaaatagt aatcaggttc tttttgacat aatggagaag ctgag 355

<210> 10816
 <211> 87
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-G4

<400> 10816

aaatgataga ttctaagaat attctgaaca tgctgccacc taatcaaaaa aattcatgtg 60
 gaacatcata aggaataact gttgctt 87

<210> 10817
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-G5

<400> 10817

gaggagatgc tgccgggagc tggcggacat cccggcgtag tgccggtgca cggcgctgag 60
 catcctcatg gacggcgcca tcccgccggg cccggacgcg cagctggagg gccgcctaga 120
 ggacctgccg ggctgcccgc gggaggtgca gaggggattc gccgccaccc tcgtcacgga 180
 ggccgagtgc aacctggcca ccatcagcgg cgtcgccgaa tgcccctgga ttctcggcgg 240

cggaacgatg ccctccaagt aactgcgaag agcatagtgc atgaggaatg agcttgtagc 300
tagctcatat gtctgaataa taagcacagc aagaagatga atgcatttct cggatcgttc 360
atccggaaca ataattaaag gggatccgga tttgctcttg tgatataatt aacgattcc 419

<210> 10818
<211> 237
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-F1

<400> 10818

cccacgcgtc cgggtccatg ctgcttgaac ccatcatgtt gtgtaacatg attttatgtt 60
tagccaaatg gtgattgtac caatagttta agtatagact atagagcacc tgataattga 120
attgctcaat tctcctctat tcatgctagc tctagcatct tacttatcca tataacctata 180
tttaaactta ctctatgaac aatgcagttt acagtgcaaa acattggttt gagtggc 237

<210> 10819
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-G7

<400> 10819

aggagctcga cggccgtaac atcacgtta accaggccca gtcccgtggc ggtggcggtg 60
gcggcgggtg ctacggcggc ggtcgcggcg gcggcggcta tgggtggcggg cgccgtgacg 120
gcggttatgg cggcgggtggc ggctacggcg gtcggcgcca ggggtgggtggc ggcggctacg 180
gaggcgggtg cggctacggc ggtcggcgcg aggggtgggtg tggcggctac ggcggcggcg 240
gcagcggctg gagggactga tgtgtgggcc catcctggct tccgccgagt tatcttatct 300
atctatagta tcgtgttacc gttcgcttct gtcaccgtgt tagtgtccgt tctaccttct 360
gattaggtgt tggtaacctt gttgttcctt ttgtttgctc ccgctatgaa acga 414

<210> 10820
<211> 421
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-060-Q1-K1-D5

<400> 10820

cccacgcgtc cgcgacgcg tgggcataga gacgccaagt tgatgaacgt gtcaaacgag 60
attattgaat tgaaaaataa ggtttgtgct ggaggcgata aaaactttgt ggtgatcaat 120
cagaagggca ttgacctcc atctctggat ctcttgcta gagcggggat tattgtcttt 180
cgaagagcaa agaggagaaa tatggagagg cttgtgctag catgtggtgg tgaagctgtc 240
aattcagttg atgagttgac tgaagattgt ctaggctggg ctggtcttgt ctatgagcat 300
gttcttggag aagaaaagta cacatttgtg gagaatgtga aaaatcctcg ctcttgact 360
atactgatta aaggacctaa tgaccatacc attgcacana tcaaggatgc tgtccgggat 420

g 421

<210> 10821
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-D6

<400> 10821

ggcaaaccctt tctccctact ctgagcatca acaatttctt ccattcaacc aactgggtgc 60
attgaaccgt gctgcttatt tgcagcaaca actattacca ttcagccagc tagctactgc 120
ctactctcag caacaacaac ttcttccatt taaccaattg gccgcactga accccgctgc 180
ttatttgag cagcaaatac tactaccatt tagccageta gctgcagcaa gccgtgctta 240
cttcttgaca cagcaacagt tgctgccttt ctaccagcag tttgcggcta accccgcaac 300
cctcttacia ctacaacaat tgttgccctt tgtccaactt gctttgacaa acccagcagc 360
ctcctaccaa caacacatca ttggtggtgc cctcttttag attgcttatt agttgt 416

<210> 10822
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-D7

<400> 10822

aattgcaaca gtttctgcca gcgctcattc aactagccat ggtgaaccct gccgccggcc 60

tacaacagca acaactgctt tcattctagcc ctctcggtgt gggtaatgca cctacatacc 120

tgcaacaaca attgctgcaa cagattgtac cagctctgac tcagctagct gtggcaaacc 180

ctgctgccta cttgcaacag ctgcttccat tcaaccaact gactgtgtcg aactctgctg 240

cgtacctaca acagcgacaa cagttactta atccactagc agtgcctaac ccattgggtca 300

ctgccttcct acagcagcaa caattgctac catacagcca gttctctttg atgaaccctg 360

ccttgctgtg gcagcaaccc atcgttggag gtgccatctt ttagattaca tatgaga 417

<210> 10823

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-D8

<400> 10823

cccacgcgtc cgcccacgcg tccgctgcta tgtgggacag ccgatctcga gggccgaggc 60

aatgcccagag aggaggtcca ggttctggca gatggatgcg cctcctccgc cccgggcgga 120

ggtcatctgc cccagcctc gccgcgccac ccgattccc ctcaccgctg tggaaaccct 180

gaacaaagcc agccccaaga tgaacggtgc atttccgccg tacagatcgg actccacttg 240

cgatatactt gatcttatcc tcagtaagaa tgactcggat ggagattcga gcagccaggt 300

gggcttctta tgcggtcac ctccgatacg cgctgacaac cctgttatcc atgatccaca 360

gtttggtaaa agactgccat ccttttctcc tctaggaggg agtcctatg gcaaaa 416

<210> 10824

<211> 226

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-E1

<400> 10824

cccacgcgtc cgcggactcg ttggattttt ttaatttaat ataaaagcta aaccagagca 60

ggtttttaaat attattgacc caacaatctt aacatacact acttagcact tcacaatcga 120

atatctcaat actcttatat acatcctcac tctagcatct aaattatcca tattcctata 180
 ttactaacga ctctatacac aatgctatct acactattaa tcattt 226

<210> 10825
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-E11

<400> 10825

caactagcaa catagaaagc acaatagtgt accaacaatg gcagccaaaa tattttggct 60
 ccttatgctc cttggctctt ctgcaagtgc tgctacggcg accattttcc cacaatgctc 120
 acaagctcct atagcttccc ttcttcccc gtacctctca ccagcgggtg cttcggtatg 180

tgaaaaccca attcttcaac cctataggat ccaacaggca atcgagctg gcattctacc 240
 tttatcacc ttgttctcc aacaatcctc agcctatta cagcagttac ctttggtgca 300
 tttattggca caaaacatca gggcacaaca actacaaca cttgtgctag caaaccttgc 360
 tgcctactct cagcaacaac agtttcttcc attcaaccaa ctagctgcat tgaactctgc 420
 ttct 424

<210> 10826
 <211> 428
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-060-Q1-K1-E12

<400> 10826

ccaatccttc cggaaaggat ttccagttgg aggtgccgtt atactacaac tcaagaagg 60
 tggaaggaca ggagatgaca aaggataaaa atggtgatcc agtgacaggg tatgtgagga 120
 tctcacacca ggtttacaat gtcacagagg actatgagag actgagggat gttgtcaata 180
 aacttgtttc tgaagggttc accagcagca agttgcggcc ttctgagaag caagaagctt 240
 aggtgtaatg accttgacgc caggtagcat ccacctgaag gcgctgtggc cgactactta 300
 ggtgtggacc ggatcagcgc aaccagtacg gcttcgtgat cgtgacgttg aagaatgtag 360
 tgtaccgnca ggaactgaca tgtgttgtat ttggcgttca gtgtaagtaa cattaatgcc 420

cctgcatg

428

<210> 10827
<211> 138
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-E2

<400> 10827

ggccaggctt cgccatgtca ctcagttttc tccgttagtt atttccgctg cattaagtt 60
tatggttatt atttctgaaa cttcgataat gtaatcacta atgataactta ttaaatttgt 120
ggtattatgt tttattgt 138

<210> 10828
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-E3

<400> 10828

agcagaacaa ggctcagctc gttgtcatcg ctcatgatgt ggatccgatt gaactgggtg 60
ggtggcttcc agccctgtgc aggaagatgg aggtcccata ctgcattgtt aaaggaaagg 120
ctcgccttgg atcgatcggt cacaagaaga ctgcatcagt cttgtgtctg accactgtca 180
agaacgagga caagcttgag ttcagcaaga tcttggaggc tattaaggcg aacttcaatg 240
acaagtttga tgaagtcagg aagaagtggg gaggtggcat catgggctcc aagtcgcagg 300
ccaagaccaa ggccagggaa aagttgctgg ccaaggaggc cgcccagcgg atgacgtaga 360
ttatccactg ttgagtttgc ccctgtagtt tgacgtggaa gaaccgatga gcattgtgca 420
c 421

<210> 10829
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-E4

<400> 10829

gttaattcta tgaaaatcat ttgacaacct gatcaactgg cgagaagagt ttctaattgga 60
 ggctagccca tcagatcctg ataacttccc ttttgttctg ttgggtaaca aagttgatgt 120
 agatggtggc aacagccgcg tggatatctga gaaaaaggca aaggcatggt gtgcttccaa 180
 agggaacatc ccgtactttg agacgtctgc taaggacgga acgaacgtgg aagacgcctt 240
 ccagtgtatc gtgaagaacg ctctgaagaa tgagccagag gaagaactgt atgtgccaga 300
 taccgtggac gtggtgggtg gcaaccgggc ccagagatca tccgggtgct gttaaggcac 360
 gaggcacac gaggcgttgt gaccatcatc gtcggttatg cagtgaccaa acaatacctt 420

<210> 10830
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-E6

<400> 10830

cccacgcgtc cgcccacgcg tccgcggacg cgtggggatc agcaaagcgg cagtgcggag 60
 agaggatcgt cgaacagaac agcatgaaga tggatcatgt tctcgtcgtg tgccctggctc 120
 tgtcagctgc cagcgcctct gcaatgcaga tgccctgccc ctgcgcgggg ctgcagggct 180
 tgtacggcgc tggcgccggc ctgacgacga tgatgggcgc cggcgggctg taccctacg 240
 cggagtacct gaggcagccg cagtgcagcc cgctggcggc ggcgccctac tacgccgggt 300
 gtgggcagcc gagcgccatg ttccagccgc tccggcaaca gtgctgccag cagcagatga 360
 ggatgatgga cgtgcagtcc gtcgcgcagc agctgcagat gatgatgcag cttg 414

<210> 10831
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-E7

<400> 10831

ccctaacctc ggccttgctg atgtcggccg ccacaaccgc cccaaccct gcggtggcca 60
 ccccgatggc gccgcctccg tcgtaccggc cctcctccac gatctccgc tccgttgccg 120
 cgtcggtcga ggaagaggac gacctctatg gccgcctcaa gtcgctccag cgccacatgg 180

agttcgtcga gatccaggag gagtacgtta aagacgaaca gaagaacctc aagcgcgaaac 240
 tcctccgtgc gcaggaggag gtcaagcgga tccagtcgt accgctcgtc atcggccagt 300
 ttatggagat ggtcgatggc aacaacggca tcgtgggttc tactacgggc agcaactact 360
 atgtgcggat cctcagcacc atcaaccgag agctgctcaa gccgtcagca tctgtcg 417

<210> 10832
 <211> 414
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-060-Q1-K1-E8
 <400> 10832

cggacgcgtg ggagcaaaga agaatggcaa acatgcaccc aggccatgga ctgtggatgg 60
 atgcaaattg caaagccagt gatgaattta tatacagaag caactgatgg atcctacatt 120
 gagagaaaag aaagtgcctt ggtgtggcac catcaggatg ctgaccagg ctttggatcc 180
 tcacaggcaa aggagctgct tgatcacctg gaaagtgtac tagcaaata accagtctct 240
 gtcaagagtg gccagttcat cgttgaagtc aagccacagg gagtaagcaa gggaatagtt 300
 gccgagagga tacttgcac agtgaaggag aggggaaagc aggctgattt cgtattgtgc 360
 atcggcgatg ataggtctga tgaggacatg tttgaaaata ttgccgatat catt 414

<210> 10833
 <211> 418
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-060-Q1-K1-E9
 <400> 10833

gcccacagga cccaacgagc cttgtaccga tccaaggagc catccacctt tagctggtct 60
 tgaagatcca tttcccgggtg acccctttgg cttgtctgtg aaggatcttg ctaccaggat 120
 cttctcagc tgggtgtgata gctccgagcc gctgtacact cttcgctgc ttgcctccaa 180
 ttccccgacc tccaccttgc atgccttgac cgctgctacc tcatctatca cttggtgtca 240
 ccgccttggc cacctcgggc ctgatgtgat gtctaagttg tctagcagtt ctgtcatctc 300
 atgtagtcgg ggttcttttg agcattttgt tcatgccttt cagttagggtc aacatgttag 360

gctccctttt cctcctctt ctagagcaac aagcaatttt gatctgggtc actgtgat 418

<210> 10834

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-D4

<400> 10834

gggccaatat caaagcgtgt aaactcgaat ataccagtca cttcaatgcc ataggggtgcc 60

gcatgacagc aacataagaa ggaactaaca agctgggttc ccaccataca ctgggcacct 120

tcgctgcaat cggctactcc ttggattcta acgagttatg acatctactg aggaatcccg 180

ctttacctcg ttatgccata tttcgtgaat ttatctctgc ttggaaaagc cactttgggt 240

gccaatcaga cacattggca cggaattca caacatcgga tttctatcct ggccatcact 300

ttcacttgtc gactgaaatt tcgttccac tgtcaatgaa caatcctgaa gaaaggtag 360

ctgacgccgg gtcaaagaac tctgcagcag tccccgaga aggcaaagag agatgtgagc 420

ttcaacaaaa atccaccagg aacggttcct tatacagcaa tg 462

<210> 10835

<211> 417

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-060-Q1-K1-C11

<400> 10835

gccctggtga tctgaatgac tggtagcgcc acacatctaa aggcgcatgg ccattcgcaa 60

ccgcggatca tggttggcct atatctgatt gcactgctga aggactaaag gcttcattat 120

tgttatcaaa gatttctcct gaaattgttg gtggaccaat agaagctaata agattttatg 180

atgctgtcag ttgtctgatg tcttatatga atgataatgg tggttttgcg acttatgaac 240

tcacaagatc ctatgcctgg ctggagctga tcaatcctgc tgagaccttt ggggatattg 300

tgattgatta cccgtatgtt gaatgtacat cagcagcaat tcaggccctg acatcattca 360

gaaaactata ccctgngcac cgcaggaaaag aggtggacag ctgtatcagc aaagctg 417

<210> 10836
<211> 420
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-060-Q1-K1-C2

<400> 10836

caaatggatt acccataaga agctggccac aaggacatc aagatacttg tgtttgatga 60
ggcagatcat atgcttgctg aggatggctt taggagtgat tctgaaagga tgatgagggg 120
tatacaaaga agcgctggtg gttgtcaggt gcttctcttt tctgcgacct tcaatgatag 180
ggtgaaggat tttgttacia aggtcattag ggatggaaat cagatatttg tgaagaagga 240
agagcttact ttggaaaaag ttaaacagta caaagttcaa gtacctgatg aatcggcaaa 300
aatagagggtt ataagggaca agatatttga atttggacag aaagttggcc aggttatcat 360
at ttgttaga acaaagcana gtactaagaa tgttcacaat gctttgacga gggaggacta 420

<210> 10837
<211> 421
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-060-Q1-K1-C3

<400> 10837

gcggcggcgg cggtggctgc ttcaagtgtg gcgagcctgg ccacatggcc agggactgct 60
gcagcggcgg cggcggctac ggcggtggcg gcggcggcgg tggaggcggc tgctacaact 120
gcggccaggc cggccacatg gccagggact gccccagcgg tggcggcggt ggcggagggg 180
ggttcggcgg cggcggcggg ggtggcgggc accgctcctg ctacaactgc ggcgaggccg 240
gccacatcgc ccgcgactgc cccacgtgag gtgtgtccgc gtccgtccgt ccagccagat 300
cagatcggat cgctccacca cctgctgggc tgatggcgcc gncccccttct agatctcgct 360
taaaaaacac cccctctcgc ctgtgtgtcg gagtaccgct tttagtttgc cgatccgggc 420
a 421

<210> 10838

<211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-060-Q1-K1-C4

 <400> 10838

 ggcgcgggca atggggtggt tgaagaagag ttggacgacg acgacgattt catcacggat 60
 gaggtgaagc ggaggctcaa ggagctcagg aagaacagct tcatggtgct catccccgag 120
 gacgagtgcg ccgaggtcga ggaggatggc gacgaggagg aagggggcag cccaggggag 180
 tggctggagt cgggtgtcgg tgacggcttc ccgctgtgtg ggttcgattc actgtatgat 240
 aagtactgcg agagtatgct ggtgtttcat aagatgatcg cacagctcat gaaggatcca 300
 gagtcactga acatgtccaa aaagtctcca agatcagcat caaaattggg gtctaccctg 360

 cgcaacctct cattcaaaag aaaagatgag ctcccgaggg attgtgaaca acttcaacaa 420
 cag 423

<210> 10839
 <211> 413
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-060-Q1-K1-C6

 <400> 10839

 cccacgcgtc cgcacgggcc tgtccaccga gttcgtgtcg cgcgcgtggg atctgcggga 60
 gcccgcgccc gcgaggctgg tgtcgagcca gccggcctcg ggcacgtca agctgcccgc 120
 ctccgccgcc gcgctcccgg cgcctctgcc gcaggaccgc gccgggggtg cgctcaactg 180
 cctggaggcg ccgctggacg tggacatccc cggcgggggc cgcgtcgtgg tgctcaacac 240
 ggccaacctg ccgctggtgc gcgaggtcgg gctcggcgcc gacctggtcc gcacgcacgc 300
 ccaactccatg tgctccccgg gcttctcgtg cgactcggcg taccaggcca cgtacatcgt 360
 gcgcggcagc ggccgggtgc aggtggtcgg gcccgacggg aggcgcgtgc tgg 413

<210> 10840
 <211> 344
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-C9

<400> 10840

gagcgtgccg ctgccgccag catcagcctg tacgagccag ctctgatgca gcagcaggag 60
cagctgctgg cagcccaggg tctcaacccc atggccatga tgatggcgca gaacatgccg 120
gccatgggtg gactctacca gtaccagctg cccagctacc gcaccaaccc ctgtggcgtc 180
tccgctgcca ttccgcccta ctactgattc atgatatttg ggaaatctcc tctatccatc 240
tctctctatc tatatatgta ataatgcagt aagacgacac acattatcat gtgtgggtatg 300
accaataata tatgcatggg cataataaag ttttggtttt aatg 344

<210> 10841

<211> 234

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-D1

<400> 10841

ctgctgtggg gctgaaatgg atgctctttc atttcttaat gaagcaccat caagagaggg 60
tgtaatactt caaccgaagg ggcgtttctg caatttttct actaagaaga aatctttctca 120
ggcgttatgt ctctatatta gcaaagctc atgatagtgc catgaaacag ctgaatggaa 180
ctcataaagc tcatgtgcac tccatacata tggcttgaaa tacttttctca atat 234

<210> 10842

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-D10

<400> 10842

cggaattccg cgggaccacg cgtgcgttgt tctcactagc tcgtggttat tttggaagct 60
tgatcatctt tccttacggc ggggatgaag agcagcacia tcgtcgcgct tctgttggtc 120
gttgccattc tgtcctcgct gtctccatgc tacgaagccg gcggctgcat cgggaaaccc 180
aagaagtcac cgtcgccgcc gagaaggcca tacctctcgt cctattccga ggaccaccag 240
aactgccgct tgatctgtag ctcgaagggt ttcaaggacg gtggctggtg tgacgaaagc 300

gtcgagcaca aagtgtgctg ctgctcccat tagaaatata atatcgatg ttatgttgat 360
gcatatatat gcatcatcca tctacctgtg tggtgcaaaa ttctgaataa aatctacctg 420
tgtggtgc 428

<210> 10843
<211> 413
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-060-Q1-K1-D11
<400> 10843

cccaacccta cttgaggctt tggactttat caatgagccg aagaggcctt cagacgagcc 60
cctgcgtctc cccctacagg atgtgtacaa gattggtggt attggaactg ttctgtttgg 120
gcgtgttgag actggtatca tcaagcctgg tatggttggt acctttgggc ctagtggcct 180
tactactgag gtgaagtctg ttgaaatgca ccatgaggct ctccaggagg cccttcctgg 240
tgacaatgtt ggcttcaatg ttaagaatgt tgctgtgaag gatctgaagc gtgggtatgt 300
ggcctccaac tccaaggatg accctgccaa ggaggctgct agcttcacgt cccaggtcat 360
catcatgaac caccctgggc agattggcaa cggctatgcc ccagtgtctg act 413

<210> 10844
<211> 360
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3059-060-Q1-K1-D12
<400> 10844

gatggaacta ctaatggtga tgtatctgaa aatctgcttt ctcgaaagcc gagctgggat 60
gagttaaagg ctcttttggc tgattcggaa cgaagtaagc ttttgagaag actcagtga 120
gcaaatcaat ataaccgatt cctcaagaga cagttgcaaa taaaggatga tgcagtcgta 180
aaattcaaag gtgaacttgc tgttttggaa ctagaactgc aggctctggt tggcctagct 240
gaagaggttg ctaattttga tgttccgtta gggctctanga agataaacgg aaaatatatt 300
caatctcatc ttctcttcag attagaagct gtncatgata agaatatgga acaagtaaag 360

<210> 10845
 <211> 376
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-060-Q1-K1-D2

 <400> 10845

 aaaaaaaaaa aataaaaaaa aaaaaatttt aaaaaaaaaa aaaaaaacaataataaaaaga 60
 gaaggtatac taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aataaaaaaat aacaaaaaaaaa 120
 aaagtgcact ccccttaaat aaccaaagtt tactaccctt aaaatccaac ctttaccat 180
 ttttatagcc tccccaaaat taaattttatt gcccgctttt taaaaacctc atcaattgaa 240
 aaacccttgg ctttcccaaa cttatccctt ttcaaaaaaa tcaccctttt cccaacctgc 300
 ataatctcaa-aaaaccccc-ccccattagc-ctttccaaca-atttggccac-ttcaattccc-360
 aacatggcac cccctt 376

<210> 10846
 <211> 416
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-060-Q1-K1-D3

 <400> 10846

 gtccggggccc gcgcccggac gcttgctgtg ccggttgaggc tggggctttt ggccggggggcc 60
 gacgtgctgg gctggggcgc gctggagggc gccgtgatga atccggcgcg cgcgttcggg 120
 cccgccgtcg tgggctcccg tcgctggaga caccaatggg tgtactgggt ggggccccatg 180
 gtcggcgccg gcctctccgg cgctgctctac gagcacctcg tcgccggccc ggccgccgag 240
 gaggaggagc ccgcgccgag ctgcggcgac cgccgtcgtg cgtagaggac tacatgcatg 300
 caagagcagc aggacgtcgt cgctgtcccc gtcctcggga atcttctgaa taaaaaaaaac 360
 agcttgcatg cgtgctcaat tgttgggtgt cgtggtcgat catgaataga attaata 416

<210> 10847
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-060-Q1-K1-A6

<400> 10847

cggacgcgtg ggctgcgaac catcctgaat tttcaagcat gatacaacag gatgtcgttg 60

aattcttcct tcaccttatt gacagagttg agaaggcaaa ccctggagac cgtgagctaa 120

atcctttttc cggtttcaag tttgttggtg aagagagggg tcaagtccct tctgggaagg 180

tttcttacia caaacgatct gacaacgttc tttctttgag cataccactg catgaggcaa 240

ctaataaaga gcagctagaa gcttttaatg agaagaaagc tgcaatgaac ttggatggaa 300

aagaagtgtc taatgaggat attgtcaggc ctagagtccc attggaggca tgcttggcaa 360

gtttttcagg gccagaggag attccagatt tttatagcac tgcattaaat tc 412

<210> 10848

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-A9

<400> 10848

cagacagttt cagctgctca ccttctcacc aagcccagaa cgggccagca aaggagacgg 60

cggccgaagc gagatttcca gagagatgtc ttgcctggcc ttctgctcgt ttcccggcct 120

gagatcacag aggacgtcca gttgctcgag gggttagtc caggcttccgg gggatcctgg 180

gagtcgagct tgactaggcg aggacgttgt ggtgggcgtg ctagaggcag gaaacctcgg 240

aaaactgtag taaccgtaat tgtacaggag gaggaagagg aggaggtaga ggtagccca 300

ccgccaaaac ctgctggcac tggggaatag gaagccgatg gcaggggtat gatcgggtgg 360

ggcagaacaa caaggcgggtg tcacagagcg agatgttcgt caggtaacag catggctact 420

<210> 10849

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-B1

<400> 10849

cggacgcgtg ggcggacgcg tgggcggtac gcgtgggcgg acgcgtgggc ggacatcggc 60

gtgagcctgg actgcgccgg gttcagcaag accatgtcga cggcgctgga ggcgacgcgg 120

cccgccggga aggtgtgect ggtcgggatg ggccacaacg agatgacgct gccctgacg 180
 gcggcgccgg cgcgggaggt ggacgtggtg ggcgtgttcc ggtacaagga cacctgggcg 240
 ttgtgcatcg acttctgcg cagcggcaag gtggacgtca agccgctcat tatccaccga 300
 tttcgttttt 310

<210> 10850
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-B10

<400> 10850

ggccagtgcg tcgagtttct gaggcacag tgcagcccga cggcgacgcc ctactggtcg 60
 cctcagtgcc agtcgttgcg gcagcagtgt tgccagcagc tcaggcagggt ggagccgcag 120
 caccggtacc aggcgatett cggttggtc ctccagtcca tctgcagca gcagccgcaa 180
 agcggccagg tcgcggggct gttggcgccg cagatagcgc agcaactgac ggcgatgtgc 240
 ggctgcagc agccgactcc atgcccctac gctgctgccg gcggtgtccc cactgaaga 300
 aactatgtgc tgtagtatag ccgctggcta gctagctagt tgagtcattt agcggcgatg 360
 attgagtaat aatgtgtcac gcacccat ggggtggcagt gtcagtgtga gcaatgacct 420
 g 421

<210> 10851
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-B3

<400> 10851

cggacgcgtg ggcggacgcg tggaggtttg ttggcttctc ctccccctcc ggttcggggtt 60
 cgggttcatg aggttctacc gggttcgggt tcttgggta accgaatcga gatgcaggcg 120
 tcagatgttg actaccgctg ctctgtcagc ggctctgcct gggccacgga cgaccactcc 180
 ctgcacaacg cttttaaacac ctacggcgag gtccttcagt ccaagatcat cctcgatcgg 240
 gagacgcaga ggtcccgcgg ctctggcttc gtcaccttct ccacggagga ggcgatgcgg 300

aacgccatcg agggcatgaa cggcaaggag ctggacggcc gcaacatcac cgtcaacg 358

<210> 10852

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-B4

<400> 10852

gggttggtctt ctctccccc tccggttcgg gttcgggttc gtgaggttct ccgggggtgcg 60

ggttcgtggg tgagcggatc gagatggcgg cgtcggatgt tgagtaccgc tgcttcgtcg 120

gcggcctcgc ctgggccacg gacgaccact ccctccacaa cgccttcagc acctacggcg 180

aggtcctcga gtccaagatc atcctcgatc gggagacgca gaggtcccgc ggcttcggct 240

tcgtcacctt ctccacggag gaggcgatgc ggaacgccat cgagggcatg aacggcaagg 300

agctggacgg ccgcaacatc accgtcaacg aggccagtc ccgcggcggc cgtggaggcg 360

gcggcgggtg gtacggtggt ggccgtggag gcggcggcta cggcgggtggc gggcgccgtg 420

<210> 10853

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-B5

<400> 10853

cggacgcgtg ggcggacgcg tgggcaatag gagaccagc agcagcagta tggatacggg 60

tatggatatg gacaccatca ccatcagcat gaccaccaca agatccaccg attcgagcag 120

ggcgacgtgg tggccatgcc ggccggcgcc cagcactggc tgtacaacga cggcgacgcg 180

ccgcttggtg cggctctacgt cttcgacgag aacaacaaca tcaaccagct cgagccttcc 240

atgaggaaat tcttgctggc tgggggcttc agcaaggggc agccccactt cgccgagaac 300

atcttcaaag ggatcgacgc ccggttcctg agcgaagccc tgggcgtcag catgcacgtc 360

gccgagaagc tgcagagccg gcgtgaccag cgaggcgaga tcgtccgcgt 410

<210> 10854

<211> 266

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-060-Q1-K1-B6
 <400> 10854
 gcccggattg ctccaaaaaa caacacatga gagactccaa tagatctcaa atgtgcgtgt 60
 gtgccactgg aactaacgtg gttatctctc cccttgaacc tgaaccatca ccatcaactt 120
 agacgataca tgaaaaaaca taggagagtt taagctgttg tcaacgttgc cgacgccgat 180
 gcaaaacgca catgattcgc atgatcacac gatgaccgtc atcaggatct tcaagcctgc 240
 caatgatact tttttactgc ttataa 266

<210> 10855
 <211> 396
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-060-Q1-K1-B7
 <400> 10855
 acaacctgca ctgcacgaga tgaggacggt gcactccaca gctgctggca tttgcatgct 60
 tcttctcatg gtcattgtctt gcacctcat gacgacaccc acctgggcag cagaggattg 120
 ctaccagcag taccgcacat gccaggacgc cgtgtgagag gcaaaatgca gtgaggaatt 180
 ccactccaag ctctccggtt tcagggtcac gagccgatg cacatccctg tttgctgctg 240
 aaccacact tgacgcggcc ggccggggat gcgtcagatc caattaatat aatccaccac 300
 caccgtgct aaacctggac accgattagt atgtaggagt accattaatt atatataccta 360
 taaagatata tgtaacagct ggactggctc ttccat 396

<210> 10856
 <211> 419
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-060-Q1-K1-B8
 <400> 10856
 cccacgcgtc cgcgagtaca gccggctagg taatctggta cgacgacca cgacgacgtg 60

gcggcgccca ccaccaccag cagcagcaag aagtcgtcgt cgccgtcgtc ctcgagctcg 120
gcgcatcggg cagcagctgc cgccctgctc gtggcggtgt ccgtcctggt ggtgggcgcg 180
gcggcggtgt gcgacatgag caacgagcag ttcattgtcgt gccagcccg cggcgccaag 240
acgacggacc cgtcggacgc gccgtcgcag gcgtgctgcg acgcgctggc ggaggcggac 300
ctcaagtgcc tgtgcggtta caagaactcg ccgtggatgg gcgtctacaa catcgacccc 360
aagcgcgcca tggagctgcc ggtcaagtgc ggnctcgaca cgccgcccga ctgctagcc 419

<210> 10857

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-B9

<400> 10857

cccacgcgtc cgccccacgc tccgcccacg cgtccgggtg ggttggcttc tgctccgcct 60
ccggttcggg ttcgggttcg tgaggttctc cggggttcgg gttcgtgggt gagcggatcg 120
agatggcggc gtcggatggt gagtaccgct gttcgtcgg cggcctcgcc tgggccacgg 180
acgaccactc cctccacaac gccttcagca cctacggcga ggtcctcgag tccaagatca 240
tcctcgatcg ggagacgcag aggtcccgcg gttcggctt cgtcaccttc tccacggagg 300
aggcgatgcg gaacgccatc gagggcatga acggcaagga gctggacggc cgcaacatca 360
ccgtcaacga ggcccagtc cgcgggcgcc gtggaggcgg cggcggtggg tacggtggg 419

<210> 10858

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-A3

<400> 10858

cacaattcac cagtcctca attctacttt gactcaatca ctatatattt ccatagtgtg 60
ctaaaccctc ctgaagtggc agaggatcat tatttcatga caccacatgg tagccttggg 120
cagggtcatt gggatacaga acaagacata gagtatcggg tctctcaatc acctacaggg 180
acagccaatg ctactacaac agaagatgcc attgcacagt tgcgctctag aaggctcatg 240

agtagaatgg aggtcccatc tgggtgccacc accgaagaca ggactgatcg aactgagggg	300
ttcgatagtg atcttggtcc ctcttcatct agtgtatcaa cagcaactcc tcccaatggg	360
cgcaacggaa ggctgctgac tccaacctct gatgatggcg agtatgtgga gtactcattt	420
gat	423

<210> 10859
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-059-Q1-K1-H11

 <400> 10859

ctagcaacat agaaagcaca atagtgtacc aacaatggca gccaaaatat tttgcctcgt	60
tatgctcctt ggtctttctg caagtgtgc taccgcgacc attttccgc aatgctcaca	120
agtcctata gcttcccttc tcccccgta cctctcacca gcggtgtctt cggatgtga	180
aaaccaatt cttcaacct ataggatcca acaggcaatc gcagctggca tcttaccttt	240
atcacccttg ttctccaac aatcatcagc cctattacag cagttacctt tgggtgcattt	300
attggcacia aacatcaggg cacaacaact acaacaactt gtgctagcaa accttgctgc	360
ctactctcag caacagcagt ttcttccatt caaccaacta gctgcattga actctgctgc	420
ttatttgc	428

<210> 10860
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-059-Q1-K1-H12

 <400> 10860

gcgtgggcgg acgcgtgggc ggctgcgtgg gcggacgcgt gggatctcat ttgctatgtt	60
gctcggtaac gtctctgatt tgctatgcaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	120
atataaataa aattattacc acgttccctt caccagcggg gtcttcagta tgtagaaaac	180
ccaattcttc aaccctaata gatccaacag gcaatcgcaa ctggcatctt acctttaaca	240
cccttggtcc tacaacaatc ataagcccta tcacaacagt gacctttggg gcatttattg	300

gcacaaaaca tcaaggcaca tcaactacga caacttgtgc tagcaaacct tgctgcctac 360
tctcagcaac agcagggaaa accattcaac caactagctg aattgaactg tgctgcttat 420
ttgcaac 427

<210> 10861
<211> 449
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-059-Q1-K1-H2
<400> 10861

attgagacca acaagcaaca tagaaagtgg aatccagtag caacaacaga gcaacaatgg 60
cgaccgggat attttccctc cttatgctcc ttgctctttc tgcattgtgtt gctaacgcga 120

caattttccc tcaatgctca caagctccta tagcttccct tcttccccca taccttccat 180
caatgatagc ttcagtatgt gaaaaccag ctcttcagcc ctataggctc caacaagcaa 240
tcgcagcaag caacatacct ttatcacctt tggtgtttca acaatcgcca gccctatctt 300
tggtgcagtc attggtacaa accatcaggg cacagcagct gcagcaactc gtgctacctg 360
tgatcaacca agtagctctg gcaaaccctt ctctctactc tcagcaacaa caatttcttc 420
cattcaacca actgtctaca ctgaaccct 449

<210> 10862
<211> 437
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-059-Q1-K1-H3
<400> 10862

aaatgattct tcagaacagt gaagctatgg tatctataga catgcctgct ggccttctgtg 60
aagttgtagt cattgctgat aaatacgga acccagttca tgttgctgct gatctgctat 120
cccaggcaga acatggccca gatagtcaag ttgttctagt tgttgctgga gatggtgttg 180
atctgggtgc cattgatgca gaagtttagc tgcagtgcaa cgcgctttca agaggtgaat 240
tcgcttcaaa agcacttagc cacagcttca ctgtgttcgc gaaagatatg gttgatgcga 300
tatcattctc aaatctgtat gcccctgagc atttgatcat caacgtaaag gatgctgagc 360

agtgcgagga gttcatcgga cacgcattggt cagttatctt gggccaatgg accccagaga 420
gcgtggggcga atatgcg 437

<210> 10863
<211> 197
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-059-Q1-K1-H4

<400> 10863

ccttgggtctt ttctgcatag tgctagctac acgcatacca ttttctccac atatgctcac 60
aagtctccta tagtcttctt ttcttcccc atactcttc accagccggt gtcttcaata 120
tggtgaaaac cccaatgtct tcaaacccta caaggatcca tacangtcaa tcgcaagcaa 180
gcattctttac ctttatac 197

<210> 10864
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-H5

<400> 10864

cagggtccaa atcaagctgc tgcatttcca gatctcaagc tgacagaggt gtcaaaagag 60
aatgtaagtg aaaagaaaga ttctgagatt gtctgttcgc ctagagctcc aacctattct 120
ttcaagaagc cgattgggtgc taaaaagcct ggaaataaga ctggtggact tgggtgcacgg 180
aagcttacat caaagccaaa tgaaagcctc tatgagcaga agcccgagga accagctccc 240
gtcctgcat catcggtgat tgagagtact acaactagga gcaaatacaca tacttccccga 300
tttgattacg ttgaaaatgc acctgctctt aagaatggga atagctcaga aggcaaccac 360
atgagtggac atgttgaccc cccaatgtcg tc 392

<210> 10865
<211> 371
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-059-Q1-K1-H6

<400> 10865

ggggtatgga gctgtaccct cggattggca agtactttga tatcaaagtc gtcaccagct 60
gtcgttttcgg tatgatgtcc tgggctgttc ttgccgtaac ctattgcata aagcagtatg 120
aaatgaatgg cagagttgct gattctatgc ttgtgaatac tgcacttatg ttgatctata 180
tcactaagtt cttttgggtgg gaatctggat attggtgtac tatggacatt gctcatgata 240
gagctgggttt ctatatctgc tgcggatgct tgatatgggt tccatccata ttacttncc 300
ctggaatgta ccttgtaaac caccctttga atttgggccc ccaactagca ctctcaattc 360
ttctagctgg a 371

<210> 10866

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-059-Q1-K1-H7

<400> 10866

gcaaagcggc agtgcgtaga gaggatcgtc gaacagaaca gcatgaagat ggtcatcggt 60
ctcgtcgtgt gcctggctct gtcagctgcc agcgccctctg caatgcagat gccctgcccc 120
tgcgcgggggc tgcagggctt gtacggcgct ggcgccggcc tgacgacgat gatgggcgcc 180
ggcgggctgt acccctacgc ggagtacctg aggcagccgc agtgagagccc gctggcgggcg 240
gcgcccact acgcccgggtg tgggcagacg agcgccatgt accagccgct ccggcaacag 300
tgctgccagc agcagatgag gatgatggac gtgcagtcgg tcgcgagca gctgcagatg 360
atgatgcagc tngagcgtgc cgctgccgnc agcagcagcc tgtacgagcc agctctgatg 420
cagcagcagc agcagc 436

<210> 10867

<211> 259

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-H8

<400> 10867

ggaagctgca gagctcaaga acggtaggaa gcatgagctg gctgtgctta ctctgcggg 60
cagtggcagc taccaacaag gtcaagctgg cagcgcccaa cagtaggcac aacctcagag 120
tgatctgcct gaataagtac tcgtagactg taataattaa acaaagcttg ctcatgggta 180
aaaaaaaaatg atcaaatact acaagatcca gaaggaaata caatgcagca tgttagctgt 240
ataaccctag tacgtccaa 259

<210> 10868
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-H9

<400> 10868

gaaatgtgaa agtgcctcag cctcaaacag taagggcggt gatatgtcaa gcaaggcggg 60
tcgaaagagg tctcgaccag gagagaatcc taagccacga ccaaaggacc gccagcttat 120
tcaggatcgt ataaaggagc tccgggaact cgtacctaatt ggggcaaagt attgatgcat 180
tactggagaa gaccattaag cacatgcttt tcttgcaaag tgtgacaaag catgcagata 240
acctcaagga ctcaaacaaa tctgatattc ttggtggtga gaatggtcca ctcaaagact 300
acttcgaagg tgggtgcaact tgggccttgg atgttggttag tcgatctatg acgtgcccaa 360
tcattgtcga ggatctcgag cggcctcgtc agatgcttgt ggagatgctt tgtgaggata 420
gaggtatctt 430

<210> 10869
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-A10

<400> 10869

attctctagg aagcaaggga atcacatcgc catggcagcc aagatgtttg cattgggggc 60
gctcctagct ctttgtgcaa cgcactag tgctacccat atcccagggc acttgtcacc 120
actactgatg ccattggcta ccatgaaccc atggatgcag tactgcatga agcaacaggg 180
ggttgccaac ttgctagcgt ggccgaccct gatgctgcag caactgttgg ccttaccgct 240

tcagccgtgc cagatgccaa tgatgatgcc aggtatgatg ccaccgatga caatgatgcc 300
 gatgccgaat atgatgccat cgatgatggt gccgactatg aagtcaccaa tacgatggct 360
 aatatgatgc caccgatgat gatgccaaac atggtttcac caatgatga 409

<210> 10870
 <211> 423
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-060-Q1-K1-A11
 <400> 10870

cggacgcgtg ggtgcaacta ctcaatgtat tcttacctca gatgcttgtc ctgaaacgtc 60
 ttcatttctca aacacagtcc tctaggaata attatgctga tgcaaaccgt gtatctgcta 120
 tcattttggg cggaggcact ggatctcagc tctttcctct gacaagcaca agagctacgc 180
 ctgctgtacc tgttgaggga tgttacaggc ttattgatat ccctatgagt aactgcttca 240
 acagtggat aaataagata tttgtgatga gtcagttcaa ttctacttcg cttaccgcc 300
 atattcatcg tacatacctt gaaggcggga tcaactttgc tgatggatct gtacaggtat 360
 tagcggctac acaaatgcct gaagagccag ctggatgggt ccagggtaca gcagactcta 420
 tca 423

<210> 10871
 <211> 400
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-060-Q1-K1-A12
 <400> 10871

cagatgcaag attgcatttt ggaagattgc gaacctgata ttccttttct tcttgcgcct 60
 gaagctcata ctgcctttct actccttcac gctgttctgc atcatcctcc cgatgactat 120
 gttcgtgccg gaggccgac tccccgactg ggtggtgtgc tacgtcccgg cctgatgtc 180
 cctgctgaac atcctgccgt gcccgaagtc gatccccctt atcatgccgt acctgctctt 240
 cgagaacacc atgtccgtga ccaagttcaa cgcgatgac tccgggctgt tccagctggg 300
 gagcgcgtac gagtgggtgg tgaccaagaa gtcggggcgc tcgtcagatg gcgacctcat 360

cgcgctggcc ccgaccaagg agcctgtgaa acactcgacg

400

<210> 10872
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-G9

<400> 10872

cccacgcgtc cgtgactggc gaggcaaaag cattgcgacc acagacagcg cgcgcttcgg 60
ggcctttttt ttgagataac aaggaggaga ggaggagatg gcggtcacga tcacgtgggt 120
gaaggcgagg cagatcttcg acagccgcgg caaccccacc gtcgaggtgg acgtgggcct 180
tagcgacggc agctacgcga gggggggccgt acccagcggc gcatccactg ggatatatga 240
ggccttgagg ttgagggatg gaggatctga ttatcttggc aagggtgttc ttaaggctgt 300
cagcaatgta aataacatta ttggaccagc aattgttggg aaggaccca ctgagcatgt 360
tgagattgac aacttcatgg tccaacagct tgatgggacc tccaatgagt ggggctggtg 420
caa 423

<210> 10873
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-F5

<400> 10873

cttatttgca acaacaatta ccattcagcc agctagtgtc tgcctacccc cagcaattgc 60
ttccattcaa ccaactagca gcattgaact ctgctgctta ttacagcag caacaactac 120
taccattcag ccagctagct gatgtgagcc ctgctgcctt cttgacacaa caacagttgt 180
tgccgttcta cctgcacgct atgcctaacg ctggcacctt cttacaactg caacaattgc 240
tgccattcaa ccaacttget ttgacaaact caacagtgtt ctaccaacaa cccatcattg 300
gtgggtgccct ctttttagatt gcttatgagt tatagttcaa taatgaagtt ttttggatga 360
tgtttgtggc gtcccagaaa taagaaagta catttctaga ttctt 405

<210> 10874
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-F6

<400> 10874

gacctgcctc gcccctgttt gtttgcttct ggccggaccc cttcccccttc tccgggtgcgc 60
gccactctgc aacccccctc ctctcgagca gagcagtcga gcagagcggc agcctcggcg 120
cgcgccggcg ccagccgaca tgactgccgg tcagtgcggc aacatccagg accaggaggc 180
agctcctggc gccgacctct acgccgtgct cgggctcaac agggagtgcg ccgacgccga 240
gctcagggtc gcgtaccgga ggctcgccat gatatggcat ccggacaggt gctcggcgctc 300
cggcagctcg gcgcgcgtgg aggaggccaa ggagcggttc caggagatcc agggcgcccta 360
ctccgtgctc tccgactcca acaagcggct cctctacgac gtcggcgctc acgacagcga 420
ggacgacgac gctgacctgt c 441

<210> 10875
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-F7

<400> 10875

cggactcgtg ggcggactcg tgggcggacg cgtgggcttt gttcccatct gtggtttgga 60
aggtgacaac atgattgaga ggtccaccaa ccttgactgg tacaagggcc caaccctact 120
tgaggctttg gacttgatca atgagccgaa gaggccttca gacaagcccc tgcgtctccc 180
cctacaggat gtgtacaaga ttggtggtat tggaactggt cctggtgggc gtgttgagac 240
tggtatcatc aagcctggta tggttgttac ctttggtcct agtggcctta ctactgaggt 300
gaagtctggt gaaatgcacc atgaggctct ccaggaggcc cttcctggtg acaatgttgg 360
cttcaatggt aagaatgttg ctgtgaagga tctgaagcgt gggatatgt 408

<210> 10876
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-F8

<400> 10876

acgacccgta ctgcgagctt cactgggtca tacaacgacg gatactacga ggtgttcgga 60
tagctgtgca catccctatg gacgactctt acgacactgc tgataacgat gttcatactg 120
atcttcattg gaatggtcac tgccatctac aacgcgttca actactgatg tcaattattc 180
ggcacgctgt tctttaagct ctggttgacc tttcatgtga tcgcgcactct ttacgctctc 240
ctcaagggtc tgaacaggac gccgaccatg acgcctgccca ttgccattgt ctggtctatc 300
atcctgtctc tgatcttggt gctgat 326

<210> 10877

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-F9

<400> 10877

cgcaaattgc accaagaaat ccatcgagag gccgtcgaca ggggaattaa tggcgtcggc 60
gtctagcagc agccaccgcc gcctcatcct cgcagccgcc gtcctgctct ccgtgctcgc 120
ggctgccagc gccagcgccg ggacctcctg cgtgccgggg tgggccatcc cgcacaacc 180
gctcccgagc tgccgctggt acgtgaccag ccggacctgc ggcatcgggc cgcgctccc 240
gtggccggag ctgaagagga gatgctgccg ggagctggcg gacatcccgg cgtactgccg 300
gtgcacggcg ctgagcatcc tcatggacgg cgcgatcccg ccgggcccgg acgcgcagct 360
ggagggccgc ctagaggacc tgccgggctg cccgcgggag gtgcagaggg gattcgccgc 420
caccctcg 428

<210> 10878

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-G1

<400> 10878

caaaaggag gggagagtgt cgtcatggct tccattgtcg cttccaggag ggccgttcgt 60

ctagttcgcg ctctggagaa gctcatcgca ggcctctccg ctcccgggac tggctccgcc 120
ctcaggccgg tggcagtcgc cggcggcctc cgcgggtaca acaccggcgc tccgctccga 180
cgctacgagg gggccgagtc ggaagacgat agcgtccgcg agtacgatgg gcggcacggc 240
ggccgggact acgctgtgcc cagcctgttc tcagatattt tccgtgatcc gcttagtgcg 300
ccgcacagca ttggccgtct gctgaacctt gtggacgact tggcgggtggc ggcgccaggt 360
cgtgcggtgc gccgtggctg gaacgcgaag gaggacgagg aggcgctgca ccttgaggtg 420
gacatgccag gcctggggaa ggagcacgt 449

<210> 10879
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-G10

<400> 10879

cccgttttaa aaaaaaaaaa aaaaaaatta aaaaaaaaaa aaaaaaaaaa aggaaaaaag 60
gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaggccagcc gttttaaagg ttccaagttt acttaccctt ccttccaact tcttaacttt 180
tctatagggt accctaaata aaatccattg gccgtatttt taaaaccttt taactggaaa 240
aaccttgcc ttcaccaatt taatccccct gtcctaaatc cccttttcgc cagttgcatt 300
attaccaa ataggccatc cattagcctt tcaaaaaatt tgccaaacct gaatggcaaa 360
tggaaccccc c 371

<210> 10880
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-G11

<400> 10880

aatcaacgca ccctgtgccc ggtgccgccc acccaaatgg catccacctc ggcggaacgc 60
gccgccgccc acgaaactat cgacaccatc cacatccgtc gcctagagtg ttccgaccac 120
gagaggggct tcgtcgccct tctctcccag ctctccccct gcccggaact caccacatcc 180

gtgttcgcca cgcgcttcgc cgagctcgcg gcgcagggcg acgaccacat catcctcgtg 240
gccgaggacc cctccgcctc ggaccggcg atcctcgcga caggggtgcct cttcgtggag 300
cgtaagtcc tgcgaggctg cggcaaggct gggcacgtgg aggacgtggt ggtcgatgcc 360
gccgcgcgcg gcaggggtct cgggctccgc atcgtgcgcc gcctcgtgga gatctccagg 420
gacgccggc 429

<210> 10881
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-G2

<400> 10881

cccttggtcc tgcaacaatc atcagcccta ttacagcagt tacctttggt gcatttattg 60
gcacagaaca tcatggcaca acaactacaa caacttgtgc tagcaaacct tgctgcctac 120
tctcagcaac agcagtttct tccattcaac caactagctg cattgaactc tgctgcttat 180
ttgcaacaac aactaccatt cagccagcta gctgctgcct accccaaca atttcttcca 240
ttcaaccaac tggcatcatt gaactctgct gcttatttac agcagcaaca actactacca 300
ttcagccagc tagctggtgt gagccctgct gccttcttga cacaacaaca gttattgccg 360
ttctacctgc acgtgcgcc taacgtggc accctcttac aactgcaaca att 413

<210> 10882
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-G3

<400> 10882

cgcagagctc accagggagg ctgttgatgt tttcatttgg tgcttaactc aaaatgcaga 60
gtcttgcaag cagtgggaaa gaatttatct tgaaaatatt gaagccagtg ttgctgtcct 120
gagcaaagtt gtgattgatt ggagggatgt gtctcctaag ctgagttctg aagctctcaa 180
ggcaacagtg aagaacttta aggctaagaa tgaggctgcg ctggagtcca caacagatgc 240
tggaaagcat gcatttatca aagaagcaga caagcactgc aaggcgatct ttggaaagct 300

gacccgtggc gccacctgcc tgaagagcaa gctgggtggtc atcgcgctcg cttgtgctgc 360
tagttacgtg ctgtctgctg gcatggacct cgagtaggtc caggcgatgg tctcatcgca 420
cctgtcgttc taaaca 436

<210> 10883
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-G4

<400> 10883

ggcgactcca ggtttgtcgg cgatgctgcg agcgggaggc aggcggctcc tcgccccggg 60
gctccgtcgg ctccggcctgg gcacaggcgc ctccggcgag gcgggctctg ccgcggcggc 120
ggcggcggtg agggcgctacc acgagcgggt ggtggaccac tacaacaacc cgcggaacgt 180
aggttccttc gacaaggacg accccaacgt cggcactggg ttggtcggcg cgccagcctg 240
cggcgacgtc acgaagctgc agatccgcgt cgacgagaac tccggcatga tcgtcgacct 300
ctgcttcaag actttcggct gcggctccgt catagcgtcc tcgtccgtcg ctactgaatg 360
ggtgaaggga aaaccaatgg atgaagtttt gacaatcagg aacacggaga tcgcgaagca 420
c 421

<210> 10884
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-G5

<400> 10884

cgctcctgga ggtctcgctg ctcagcagca gtccactcgc gcagcggagg gcggccagga 60
tcttgcgctg gttcaaggag gaagggccgc agagcaggac gaccagggcg cgttcggggc 120
ctcgcgtgga gggagtggca gaggccacgt cgtgccacga cgacgacgta tcctgcgagg 180
cgaagggttg ccgggatacc accgtggacg agattgtgag gcgtagcctg gataggaaca 240
tgaagtctat actgaggagg gccacggcgt ccgtggacct gaccaatgtt aagctgctcg 300
ttacgagccc cagctccaag agcttgctt gctgaactca caatgacaca agtgctcagt 360

tttccc

366

<210> 10885
<211> 314
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-G6

<400> 10885

caaaccgatg acatggccaa taaatcggtc gaactttcta cccgtagatg agctcatgga 60

taaaccactc attgatgagc acttgagcaa taccagggag ataagaaaga gaattcagga 120

ctccgtgctg acatagcagg gcgtacatat gcttgtgcat atgcggcggt ggaccgttgg 180

tagtacaaga tatgaatgtc tcgagatatg tgtacttgtc tatgcctagg ctgatgtctg 240

acgactcttc cgtaaaactat accatgtcgt gcagatgttc attcttgtgc aaacgtctta 300

tgtctgagca gatg 314

<210> 10886
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-G7

<400> 10886

gccggatgga tggttggatt atgcagctaa aaggatcgca cagcttggtg ctgataaagg 60

ttacaaccac actctctgtg atgaacttct tagcatttta ctgcctgcta aacccccctt 120

ccatccacgc cagttcgca catgtgcagt tgttggtaac tcaggagatc tcttgaaaac 180

agagtttgga caagagattg atgcgcatga cgccgtgttt cgggacaatg aggcacctgt 240

caataagaaa tatgcaaaac atgttggatt gaaaagagac tttcgactgg ttgtccgggg 300

tgctgctcga aatatggcac caatactgaa gggctcctgt aatgctccga tgaggcactt 360

atcattaataa gtttgacgca caaagaaatc aatgcggtga taaaggaact tccaaatcct 420

gtctaccttt ttcaaggat agtt 444

<210> 10887
<211> 315

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-059-Q1-K1-G8

 <400> 10887

 gtgcgatcgc aggaacaatc accaccgtta ttaagaagat gatgcgctgc gctgcaaggg 60
 gcggcggggtg cgctcgcttcg tggagcggcg atcggagatt gccggcggtc aacccttgca 120
 gcgtgcggat gccgacgggc aacgatgggt ggtgcgccgg cctgaggctc cgggcggcgg 180
 atctcgccgg cctcgagatg gccaacctgc gcggcggcgt cggggggctc ttgcgcgcga 240
 gcccgcgcta cgggcgcttg caagccacgg cggcagttga ccctgaagat attccattgg 300
 aagaggttca agtta 315

<210> 10888
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-059-Q1-K1-F4

 <400> 10888

 gtccgcgtgg agccggagca cggctttcac cagctgaatc cgctgccgtc gtcgtcgtcg 60
 ttttggttcc catcgtcaca agtccagtac caaacgtgcc agcgcgacgt cgacaggcac 120
 aacgtctgcg ccatggaggt gaggcacagc gtcgaacggc tggaccaggc cgacgtctac 180
 agccctgggg ctgggaggat cacacgcctc accagccaca agttccccgt cctcaacctc 240
 gtacagatga gcgcggtgcg ggtagacctg taccaggacg ccatcatgtc gccgttctgg 300
 aacttcaacg cccacagcgc catgtacggc atcaggggca gtgcaagggt ccaggtcgcc 360
 agcgacaacg ggaccacggt gttcgacgac gtgctccgtg cggngcagct gctcatcgta 420
 cc 422

<210> 10889
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-059-Q1-K1-E11

<400> 10889

gcagattggt ggtgatgacc ttctcgtcac caaccccact agggttgcta aggctatcga 60

ggagaaatca tgcaatgccc ttctgctcaa ggttaaccaa atcggatctg tgactgagag 120

tattgaggct gtgaagatgt caaagcgtgc gggctgggggt gtgatgacta gtcataggag 180

tggtgagact gaggacactt tcattgctga tctggcagtt ggtttgtcca cgggtcagat 240

taagactgga gcacctgca gatcagagcg tcttgccaaa tacaaccagc ttcttaggat 300

tgaagaagag cttggcgcta ttgctgtcta cgcagggtgcc aaattccgtg cacctgtgga 360

gccctactaa acgggcggga tgcaagtgt tttatgtctg cacaagtcct gtgaaactgt 420

ttactgc 427

<210> 10890

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-E2

<400> 10890

aatccatcga gagggcgtcg acaggggaat taatggcgtc gtcgtctagc agcagccacc 60

gccgcgtcat cctcgcagcc gccgtcctgc tctccgtgct cgcgggtgcc agcgccagcg 120

ccgggacctc ctgcgtgccg ggggtgggcca tcccgacaaa cccgctcccg agctgccgct 180

ggtacgtgac cagccggacc tgcggcatcg ggccgcgcct cccgtggccg gagctgaaga 240

ggagatgctg ccgggagctg gcggacatcc cggcgactg cgggtgcacg gcgctgagca 300

tctcatgga cggcgcgata ccgccgggcc cggacgcgca gctggagggc cgcctagagg 360

acctgccggg ctgcccgcgg gaggtgcaga ggggattcgc cgtcacccctc gtcacggagg 420

ccgagtgcaa cctggccacc atcagc 446

<210> 10891

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-E3

<400> 10891

cggattgacc gactcgtccc acgcagtagc ctcatgaagc cctacactag atggagagaa 60
 ctgtccaaac taatgatcac ctaccatggc aaggatttgg aattgctcgt aacatccaca 120
 acagaacata ttgtaagcta tgttcatgag actagtccag aacgctctga tgatgcgctg 180
 gacgactatc atccaggagc tgtcaatcct ttcgagcaac ttgaactgtt cataaaggta 240
 gactacgagg aatacgacaa gcaatgctca ctgcattaaa gaaagcatag aaaggcgaaa 300
 tcagctgaca gtgctaggct attccatgca ctgtcaaggt ctacgagctg gtgccaaact 360
 attgatccaa agtgatcacc tgt 383

<210> 10892
 <211> 320
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-E4

<400> 10892

gtgtggtatg accaataata tatgcatgat cataataaag ttttggtttt aatgaaaggg 60
 aaaaagaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaggac aaaaaaaaag aaggactcaa aagaaaaaaa caacatatta aagagcaaaa 180
 gactgcaata actgaacaga aaagtgaaaa aaacggaacc tgtgaaaaaa taggaagacc 240
 tggaaaaaac gttagtgcac caaactgagc acattgaaga taaatcacgt tttagaaagc 300
 tggatgtgaa catattagac 320

<210> 10893
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-E7

<400> 10893

atccaagtct tctgcatatc tgaagaggat accgacgcag aggagctgaa agctgatggc 60
 aaaaagttct tgtatgatct taggatgcaa gctgaggtca ttgttgctac tatgaaatca 120
 tgggagtcac acatggagag cagcagtagc ggtgttcagc aggataactc ccatgaggct 180
 tacacaagtg cacagcaaag gatcgaaaca taccttgacg agatgaagga aactgctcaa 240

agagaaaggc agccactaaa ggagaatggg aggcaagttg ttgtgaatga acagaaggtt 300
gataaattcc tttaacacaat gttgaaattg aactccacga tactcaggta ctccagaatg 360
gcagctgtag ttcttgtgag ccttccacca ccaccactaa atcatcctgc atatttctac 420
atggagtaca tggatttgct tgtaa 445

<210> 10894
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-E9

<400> 10894

cggacgcgtg ggttttacac ccagcgtca agccagatta ttgaagcaaa caaggacata 60
agtagaagac ggtaagagtg catgcatgaa acattaattc tactcatgat cgaccacgac 120
acacaacaat tgagcacgca tgcaagctgt tttttttatt cagaagattc cgaggagcgg 180
ggacgacgac gacgtcctgc tgctcctgca tgcattgtat cctctacgca cgacggcggg 240
cgccgcagct cggcgcgggc tctctctctc cggcggccgg gccggcgacg aggtgctcgt 300
agacgacgcc ggagaggccg gcgcgcacca tgggccccac ccagtacacc cattggtgtc 360
tccagcgacg ggagcccacg acggcggggc cgaacgcgcg cgccggattc atcacggcgc 420
cc 442

<210> 10895
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-F1

<400> 10895

cacggaggag gcgatgcgga acgccatcga gggcatgaac ggcaaggagc tggacggggc 60
caacatgacc gtcaacgagg cccagtcctc cggcggccgt ggaggcggcg gcggtgggta 120
cgggtggtggc cgtggaggcg gcggctacgg cgggtggcgg cgccgtgatg gcggcggcgg 180
ctacggcggg ggcgggcggt acggtggcgg cggcggctac tgtggtggtg gcggcgggta 240
cggcgggtggc aaccgtggcg gcggctacgg caactccgac gggaactgga ggaactgagc 300

ggtggggccc gcgcggtcaa gttatcctgt tcgctgccgt gatgtttacc ctagtccaga 360
 gggtttatct tcgttcgtct cgtgtttgtt gttgcccatc tgtgtttttg attgcaaggt 420
 cgctc 425

<210> 10896
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-F12

<400> 10896

cccacacgtc cggcagtggtc agggacaatc ttgctctcag catcggttat gcctgatgac 60
 tggatgagtc ttggtggagc acaacgctca gccggatgcg gttgctatat gagataatgc 120

ggatgatccc actgaagctg ctccagcaga tgaagaaatg tgaccgcaaa acattgatac 180
 ggaagacaat gtattatgca ggaaagagga agcaaggtcc aaggaagagc actggcttaa 240
 tggaaccctt agaactagca agaggaagta ttaattttcc aacaaatcag aatatggaga 300
 aaatgggact cacgctactc ctgttcaacc aaggcaacca atctatatag atgcaacgga 360
 gtccgaagag gcgaaattgc tagcccagaa ttaaccata ctggaatatg attc 414

<210> 10897
 <211> 317
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-F2

<400> 10897

gcaaccatca acgatgggtc tgtcatatag atcggtcgcg tttgcgtcta caaaacaaga 60
 acctacaatg gtattgcacg gatggatcgt gtaaccttgg tatggtaaga gccgcttgac 120
 aggaagtcga gcgttcgggc gcaagatgcg ttgtctggca tgctgttcct tgaccatttg 180
 tgctgctagt atgtactgtt ataagctgcc ctagaagttg cagcaaacct ttttatgaac 240
 ctttgtatct ccattacctg ctttggatca actatatctg tcatactata tattactaaa 300
 tttttacgtg tttttct 317

<210> 10898

<211> 287
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-059-Q1-K1-F3

 <400> 10898

 gctctctatt gacattccaa gcaaacgcgt aggccagttc agagagcagt ttatcatgca 60
 accgggaaac ttaatgtcat gctattacat atcaaagcaa gatctgtaca ttatccaatc 120
 ctgattgaac atattatttg taagattatt ctctgaagca catgtataga ggatttagaa 180
 gaattccttt cggacctggt tttgaatctt atttactttg tggaactgaa attttgggcc 240
 aaacctctga caagaattga aaagttaaag tcttcaacta tgaaaca 287

<210> 10899
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-059-Q1-K1-E10

 <400> 10899

 ggcaaaaacta ctcttggggtt tgctccttgc ctttgctatt ctagggacaa catcgggggc 60
 tgggtgtgta caagacgcgg aagacatgaa acgagagtgc aagcagtttg agctattccc 120
 agcgaaccca aagttgccac cgtcggcagc atgttgtgct gtgtggaaga gggcagatgt 180
 tccatgccta tgcaaatatg ttaacaagga agtagagaag gtatggtgca tggagaaggt 240
 tgtgtacgtc gccaaactatt gtaagaggcc gtttcaacct ggctacaagt gcgggagtta 300
 tacagttcct cttagtatgt aaaaggagtg gttgggacat gtggtactct ctctagaac 360
 tttaatttga gatttgtaac atgtgagaga ctattgagaa taatatgtat ggagtaatat 420
 gcttccttct t 431

<210> 10900
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-059-Q1-K1-C12

 <400> 10900

gagagaaaaa aaacaagaaa gactgatatg ttcataataag tatgttaagc aggcgcaggg 60
gcaggaatcc ctccccttac tttaacaacag aacaaagatt tggccaaaca aatccataca 120
acaattcaat ccgtaggtct ggtgctatag taaacagcgg tggcgggtggc ggtagcgcct 180
gaacgaacaa ggcgaaagaa attattgtcg gcgaaagggc cgggacctgg accagacctt 240
tcctcggcag tctggcggat ccggcgccgc ctccagccgc gcagcgggtg atgcggggagc 300
agccgcgggtg gtaggggttg gcctggccgc ccgggcggca gttgtagtag ctggcgccgc 360
ggcggggagca gggcacgttg tcccgcgcga gcgcgccgta gctgatgtac cc 412

<210> 10901
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-C3

<400> 10901

cccactcgtc cgcgatgggtg gaactggtaa aactacattt gtgaagaggc atctcactgg 60
agagtttgag aagaaatatg aaccaaccat tgggtgtggaa gttcatccgt tggatttcac 120
cactaactgt ggtaagatca ggttctactg ctgggatacc gcatggcaag agaagtttgg 180
tggcctcagg gatggatact atatccatgg ccagtgtgcg atcatcatgt ttgatgtaac 240
ctcaaggctt acttacaaga atgttccctac gtggcatagg gacctgtgca gggctctgtga 300
aaacatcccc attgtcctct gcggtaataa ggttgatgtg aagaacaggc aggtcaaagc 360
caagcagggtt actttccaca ggaagaagaa tctgcagtac tatgaaattt ctgccaagag 420
caactacaac tttgag 436

<210> 10902
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-C4

<400> 10902

cccactcgtc cggcgtcgtc acaactggcc gcaagatcat tggcgccacc aaccccctgg 60
cttctgagcc cggcaccatc cgtggcgact ttgctgtcga cattggcagg aatgtcattc 120

atggaagtga cagcattgag agtgctaata aggagattgc cctgtgggtc cccgagggcc 180
ctgctgattg gcagagcagc cagcaccctt ggatctacga gaagtaaaca tggaaagttt 240
cacatcaaac cttgagagcc agaggaagca tgtcaccatt tgtgctttag caatgttttc 300
gaâaagatta tgatctgtat cttggaacct tatttcaatg gaccaaattt ctttcaaaaa 360
aaaaaaaaat cactaatct 379

<210> 10903
<211> 442
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-059-Q1-K1-C6
<400> 10903

cccactcgtc cgggctggca agacagacta cagggccagg ataaggctga ttaaccagga 60
caaaaacaag tacaacacac ccaaatacag atttggtgtg cgatttacca acaaggacat 120
cactgccccaa atcatatctg ctagtatagc gggatgatg gttcttgctt ctgcctactc 180
gcatgagttg ccacgatatg gtcttgaagt tggctgacc aactatgcag ctgcctactg 240
cactggcctt ctgttggctc gccgtgtgct caagatccgt ggtttggatc aggagtacga 300
gggcaatgtt gaggccactg gtgaagactt ctctgttgag ccagctgatg agaggaagcc 360
tttccgtgct ctcttggatg ttggccttat caggactaca acaggggaacc gtgtctttgg 420
tgccctcaag ggagcattgg at 442

<210> 10904
<211> 441
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-059-Q1-K1-C7
<400> 10904

cccacgcgtc cgcccacgcg tccgcggacg cgtgggtgcc ccagcagctg tcgtttctcc 60
tgtgcttaca cggctccat cactgcagag cacttctgta gcaactgggc aacctcaggt 120
tggtgctgaa cctagctcga tatgcaaact tcaggctgat ctccccattg ccaggaggca 180
ctctcttcag cgtttcttg agaaacgccg tgacagggtc gtgagcaaag ctccatacag 240

ccccgctaag tcgtccgatg gcatggagtc accgaggatt gaggtgacag cggagggcaa 300
 ggcccagtaa cttgaaaggt ccccgcggaag tcccatcggt gaaggctgac gttgtgggaa 360
 ggggcagggga catgcttgtg ttgcctttat gttatgtggc ggcggcagcg tggaaccgca 420
 ctaataatgt ggaccggaac c 441

<210> 10905
 <211> 384
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-059-Q1-K1-D10
 <400> 10905

gaacaagttg aaagaccaag ttctgaggaa ttactagctg atgtttcact tggactaggg 60
 aaggtagagc ctcataagac tgaacctgca cttgctgctc tggttagtat ccaacagcat 120
 gggttcaaac aagctgaaaa tggcaacact gaacctaaaa gcatggataa cgctaacggc 180
 gatgatgacc cgatatcaag gctacagcta gcggacggta ctgccatttc agaagctgca 240
 gtgaacgcca agttccttgt tgagcacgag gaggggttaca ttccacatct agctgcactt 300
 gtgatcgaaa agcaattcca taagatggat acagtacagt cgtttctcac cgaagatgga 360
 aacctggtgt tacgatcgag agat 384

<210> 10906
 <211> 426
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-059-Q1-K1-D11
 <400> 10906

attcccaact gcagctgcgc gcctcgactg gtagcccgaa ccctagctag caggtcggag 60
 gcgagagagc agccatggcg cgggtgcctcg cgctcgtctc cttecttctc ctccggcctcg 120
 cctccgcccgc ctccgctgcc gatgcgccct ttgtcgtcgc gcacaagaag gtttcgctct 180
 cccgccccaa gccggggcgtc gagcgcgtcg ccgtctccct cgacctctac aaccagggat 240
 ccgcgactgc ctatgatgtg tcaacttaatg acgactcttg gccaacacaa gcatttgagc 300
 ttgtcactgg agagaaatcg aagacattgg aaaggcttga ccctggtgcc actgctacac 360

acacatatgt cctggagacc aaaacacagg gcaggttcca ggggtcacca gctattatta 420
cgtacc 426

<210> 10907
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-D12

<400> 10907

ccgacgcgtc cgccacgcg tccgcccacg cgtccgccc cgcgctccgc gacgcgtggg 60
cgccgccatg tcgaagcgag gcaggggagg ttccggcgggg aacaagttcc gcatgtcgct 120
gggtctgccg gttgccgcga cgggtgaactg cgcgggacaac acggggcgcca agaacctcta 180

catcatctcc gtcaagggca tcaagggccg cctcaaccgc ctcccgtccg cctgcgttgg 240
cgacatggtc atggccaccg tcaagaaggg gaagcccgcac ctcaggaaga aggtgatgcc 300
cgccgtcatc gtccgccagc gcaagccgtg gcgcccgaag gacgggtgtct acatgtactt 360
cgaagataat gctggagtga ttgtgaatcc caaggggtgag atgaaagggt ccgctatcac 420
tggaacctatc 430

<210> 10908
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-D4

<400> 10908

cggactcgtg gggcttatgc tgttgctaag gctgattgct tggatgattt ggctttttgca 60
attatgcatg agatgagcaa attgtcatatc cgggttacgg aagaagatgt tatccgtgca 120
cgtaatcagc tgaagtcctc tatccaactc caccttgatg gttcaactgc tgttggtgag 180
gacattggcc gtcagctgct gacctatgga cgaagaattc ctacccccga gcttttttgc 240
agaatagatg ctgttgatgc aagcactgtg aagcgtgttg caaacgcgtt catctttgat 300
caggatgttg ctattgctgc gatggggccg atccaaggac ttccagacta caactgggtc 360
agacgccgga cctacatgct ccgttactag attaatacagc cgggtgtacc atgtttaccg 420

tctgcaaaag aca

433

<210> 10909

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-D7

<400> 10909

aactagcaac atagaaagca caatagtgt ccaacaatgg cagccaaaat attttgctc 60

cttatgctcc ttggtctttc tgcaagtgt gctacggcga ccattttccc gcaatgctcg 120

caagctccta tagcttcctt tcttcccccg tacctctcac cagcgggtgtc ttcggtatgt 180

gaaaacccaa ttcttcaacc ctacaggatc caacaggcaa tcacagctgg catcttacct 240

ttatcacctt tgttctcca acaatcatca gccctattac atcagttacc tttggtgcat 300

ttattggcac aaaacatcag ggcacaacaa ctacaacaac ttgtgctagc aaaccttgct 360

gcctactctc agcaacagca gtttcttcca ttcaaccaac tagctgcatt gaactctgct 420

tcttatttgc aacaacaac 439

<210> 10910

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-059-Q1-K1-D8

<400> 10910

cccacgcgtc cgtgatgcac atgtctcccc aagagtacct cagcatcctc agattgcaag 60

tccattcgac aattcagttg tcccacctgg aactgggttg tatgggcaat cagcagctgg 120

gtttgctcct agaccagtg tcaactgacca gtogaagaat acaatattct ctaatgcctt 180

atcaagccca gtgcgcagga gtctccagaa ctctcatacc actcaaggtg ctggcaatgg 240

aggccggaat gcagaagcaa acttagcagg tgcaaataga gaggccaatt ctacaagctc 300

caacgacact tctatggata tggtttcaga cacgaatgaa ttctaccagt gatttgcagt 360

aagatccttc tgcaatcaag cagcatcgca tgccagtgtt tntcttgggc ctttcctttc 420

gttgaggttt tcacataa 438

<210> 10911
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-D9

<400> 10911

gcgtcagcga ctccccggcga agacgatggg gaaggggttc gcacccctacc tggcgatgaa 60
gacggggccg gagggcgccg acgcgccggc ggccgagcag gctctgatcg acgcgccacct 120
gcgggagctc ggccgtcccg ccgggaagct ccgaaccac gcattcgtcc tcggcgccgg 180
gctgggggttc ggcacctcct tctcaaatg gctggccttc ctcccgccag tgtatctctt 240
gatattggat cgcacaaatt ggaagaccaa catgctgaca gctctcttgg ttccttacat 300
tttcttcacc ctgcctaata tgctgttttc tctgatcaga ggagagggtg ggaaatggat 360
tgcgattatt gctgttattc tgcgtctatt cttccacga cacttcccag atgggttaga 420
gc 422

<210> 10912
<211> 365
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-059-Q1-K1-A8

<400> 10912

gtgaagatca tgcttgactg ggacccgaag ggcaagggtg gcccgatcac ccctcttgcg 60
gacctggtga ccatccatac ccgaaggag gaggacgagc tgcgccctcc tgtcttggca 120
gctgaggctc aaggtcccaa cagcgtcctc gaaatggcag tttgatctgg tcttagctag 180
gtttgtatct tatgataagg gcagtgctaa gacagtctgt tccgtgtcac ttctgtttaa 240
aattaagttt tgccgagaca agctatatgt accggatgaa agtgtgggtc cttattgtat 300
gctctggaat tttatttttg gtatgtttat tttttgcctt agttcaacat gcctnctgct 360
tggaac 365

<210> 10913

<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-A9

<400> 10913

atctgccgct ccagcctttc gctaggggtt aaccaccggc ggcgcgcgcg acggcggcga 60
gatggtgcag cgtctgacct accgcaagcg gcacagctat gccacgaagt ccaaccagac 120
gcgggtcgtc aagacccctg gtggcaagct cgtgtaccag tacaccaaga agagagccag 180
cgggcccaag tgtcccgtag cggggaagaa gatccagggc attccccatc tgaggccagc 240
tgagtacaaa aggtccaggt tgtctaggaa ccgcagaact gtgaaccgtc cctatggggg 300
agtactatct ggaactgcag ttagagaaaag gatcatccgt gctttcctgg ttgaagagca 360
gaagattgtc aagaaggtgt tgaaattaca gaagaccaa gacaagactt cctcaaaaaa 420
gtaactctg 429

<210> 10914
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-B10

<400> 10914

cccacgcgtc cgcccacgcg tccgcccacg cgtccgccc cgcgtccgct cgtcgcagt 60
tccttgcaac cgattgccta tccccctccc aaccaaagac cgatggcgcc caaggccgag 120
aagaagcccg cggcgaagaa gccggcggag gaggagcccg cggccgagaa gacgaccgcc 180
gggaagaagc ccaaggcgga gaagcgggtc cccgcgggca agtccgccgg caaggagggc 240
ggcgagggca agcgtggcaa gaagaagggc aagaagagcg tggagacgta caagatctac 300
atcttcaagg tgctgaagca ggtgcacccg gacatcggca tctcctcaa ggccatgtcc 360
atcatgaact ccttcatcaa cgacatcttc gagaagctgg ccggcgaggc cgtcaagctc 420
gcgcgctaca ac 432

<210> 10915
<211> 431
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-B12

<400> 10915

cccacgcgtc cgcccacgcg tccgaacaaa gtttgagctg ttgtaccttc acccaatcga 60
catatagcac tacaaaatgg tcaactgggaa agtagcagtc gtcctcctag cctgctggac 120
gctagttctc taccaaccag tgcttgggcg tttaccgtgt aacaatgatc agaagagaga 180
gatcctgcgc gagtgtgata cactgaactc aacacctgac tatactccat cccggcacgg 240
tgcggtgctg gtggcggtga gaaaggtgcc aggaaccaac atgctttgca ttgcctccat 300
actctcactt gctgacaagg ccaaatacag tgtaaggaag attctaggat ttagagatgc 360
atgcgcccct tcacatccac accatcaggt catggcctaa aagagtgtag ctgccagcct 420

gccatcgctt a 431

<210> 10916

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-B2

<400> 10916

gtcatgcgtg cgtggaggcg gagctcctcc tactatagcg tgccagcgtg gggcagctgc 60
ctcaactatc gccggagcag agaaccacg ggccactgcc ccaccccacc cctctctttt 120
ccccagccac cggtggtgctc ggccggcagcc taggcggcgt tgctcgagctg ccgacagagg 180
agggaggact ggaccagaaa ggtgaaggct gtgccgtgtg tcgatcaata ggcccaaatac 240
ccaatacaag gaatgcaata agagacatgg ttgtccgtgg tgctccagca atagccatag 300
cagcggcact agcattagcc gttgaagttt ctgatttaga ttttattggt acgcctgaag 360
aagcagcttc ttttgtttca aagaaattgg aataccttgt atccagccga ccaactgcag 420
tgaacctatc tgatgctgca acaaagc 447

<210> 10917

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-B6

<400> 10917

cccacgcgtc cgcccacgcg tccgcccacg cgtccgcca cgcgccgcc cagcggtccg 60
ggcagctcga gcacggcggg cggcacgaca agctacacag agcgacgggt ggcgcgagta 120
gcagcaatag gggcacgacg ataaatcgca gaatcagagg tcggagggga gcgaggagca 180
gagcaagtga ggaaggggaa ggcgagctcg caggcgact acttatgggc gtccggagga 240
gggaagacga gtaggcgatg gtgcttcagt gtggccgacg actcttccgt gccagcaggc 300
acaattactt ggagaagaaa tagacgaagt taatggaaag gaagagaaac ggacgacgtc 360
cattgagaag gagaggcgag cggacggagt gaaaactcgt gtcgcggcaa cgcatgcatg 420
tggtgcgagc ggcggtgcmc g 441

<210> 10918

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-B7

<400> 10918

acttggaatt gtaaagatct gcatgtccat tgccttttga tgaagccaaa ctttgtcggg 60
gcgaaaatgg tcctgagcta aagcaagaga ttcagaagca atttagaaac attagtgcaa 120
ttatggactg tgttggatgc gagaagtgcc gactgtgggg aaagctccaa gttcatggtc 180
ttggaactgc actgaaaatt cttttctctg ttgatgggga cagccatatg aatcagccat 240
tgcagctgca gcgaaatgag gtcattgcat tgttcaatct tctgaacagg ctctcagagt 300
ctgtcaaatt tgtacatgaa aaaggatcat caattgaaga agtcattgag gaacagatcc 360
cttcaacggt tcaaaagagt gtttccatgc cgaatcttaa actggacttc ctctgagatg 420
tatgagagta attttagtt a 441

<210> 10919

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-B8

<400> 10919

gtttcacaga cagcatccat tccacagtca ccagagcact agagcagagc ggcaaccgac 60

aagagcagag tgagatcgtc gtcagcgagc ccagcagata cgagagagag gatggcggac 120

atcgcggttc tgggtggcgga gcagttcgag aagacggcaa ggcgaggcgc ccccggcggg 180

gacagcggca gcagcagcgg gagcggcggc gagacaagga acttcggggc cgtggccaag 240

gtgtggagct cgtgggtgga gtccgccttc gtcgtcgct cgggggtcag attcaccgtc 300

gcggtgcagc tggagcccaa gaccgggctc gcgctggccg ctgccgacgg ctttttttcc 360

gcctagcttc ctgcctgctt ccatgtcttt ctctgagca gtgccagtga tcgagcgagt 420

cct 423

<210> 10920

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-B9

<400> 10920

ctcagatgca tgggtggaagc actaagaaat cggcacctga tctatccccg accaaacaga 60

agaagcaaca ggcagttcaa gaaaggaaaa ggaagcaaca gtcaaagagg ggcaagaaag 120

tggctggtga atccctggaa ataccccaaa caaatTTTga atcggagaat caacctcata 180

atgacgatgt caacattgag aaacagacaa ttacgagtag cacactctca ccaaatggtg 240

ccaaggggca aaaggagct caaaggagaa accagaccaa aaaaaggaat caaagaaaaa 300

tccttgagga tgctgacctt gcatgccagc ctggagttag aaaaagctca agaacacgct 360

caaggccttt ggagtattgg cttggtgaaa gattactata tgggcctata catgacaatt 420

tgcatgga 428

<210> 10921

<211> 345

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-058-Q1-K1-H2

<400> 10921

cccacgcgta cgtccacgcg tccgttcact cgtgcttgta gatctgccac tacccttcgc 60
aatctagaaa atatnactcc tatacatagc cacacctatt cccgtatcca ctgatgcatc 120
caagcccatg ccagctgtac agaaccgcga gtatatataa tacctcaata ctggcccact 180
tcgtagatth cctcatgcat tacagtagtc tcaatgcatc tccctactaa tggggtaact 240
accagaatth cccataaccag tgttttcaag cctcatgct ggtgaaaccc tagcttctct 300
accatgctaa accctgctat gcattccact atatcctgct gtagc 345

<210> 10922
<211> 267
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-H3

<400> 10922
gctgctcgcc tgtcgattcc gcctcatcgc gtcccgtaac tccatgtcca ctgggaccgc 60
gaccctgggc ggcgggcgat ccccggtctg gcgcttctt aacctgcgcc cgcgcgcaac 120
ccgggggtggc cccaatccgt tgcccgggct gcgctcgcc tctgggtgcc gtcacataac 180
tattgggtcc gcggaagcaa gcccgcgccc caacggcccc gtttcccaag ggtgctgatt 240
tatttttccc ggcagtaatc tcgaaca 267

<210> 10923
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-H4

<400> 10923
acgactcgtc cgaccacgcc tcacgggtac cgtggtccaa tgcgtatttc aaacgtttgg 60
caatgagatt caagaaaaag ccggcttgcc agacagacta ccaggccagg ataaaggctg 120
ttaacccaag aaaaaacaag tacaacacac ccaaatacag atttggtgtg cgatttacca 180
acaaggacat cactgcccac atcatatctg ctagtatagc gggatgatatg gttcttgctt 240
ctgcctactc gcatgagttg ccacgatatg gtcttgaagt tggctcgacc aactatgcag 300
ctgcctactg cactggcctt ctgttggctc gccgtgtgct caagatccgt ggtttggatc 360

aggagta

367

<210> 10924

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-H5

<400> 10924

aagaacatcg ccttgaggac agccttcact ttccttgga gtgtgtttgc tattttttgc 60

ttcttgaatg ctcttatctg ggggcaaaag tcctcaggtg ctgttccatt caccaccatg 120

tttgctcttg tctcctttg gttcgggtatt tcagtacctt tggtttttgt tggaagcttc 180

cttggttca agaaacctac cattgaagat ccagtgaaga caaacaagat accaagggca 240

aatccctgag caggcctggt acatgaaccc aatcttctcg attctaactg gagggatcct 300

tccatttggt gctgtcttca tcgaactctt ctttatacctt acttccatct ggctgcacca 360

gttctactac atctttgggt tctcttctt tgtgttctg attctcatcg tgacatgtgc 420

tgag 424

<210> 10925

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-H6

<400> 10925

acgcatccga aggacatcgc cttgagggtta gccggttctt tccttggcag tgtgtttggg 60

atTTTTggct tcttgaatgc gcttatctgg cggcaaaagt cctcaggtgc tgttccattc 120

accaccatgt ttgctcttgt cctccttttg ttcgggtattt cagtaccttt ggtttttgtt 180

ggaagcttcc ttgggttcaa gaaacctacc attgaagatc cagtgaagac aaacaagata 240

ccaaggcata tccctgagca tgcttggtac atgaacccaa tcttctcgat tctaactcga 300

gggatccttc catttggtgc tgtcttcac gaactcttct ttatccttac tttcatctgg 360

ctgcaccagt tctactacat ctttgggttc ctcttcttg tgttctgat tctcatcgtg 420

acatgtgctg agatctcgat tgtcctatgt tact 454

<210> 10926
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-H8

<400> 10926

cgcggtaccga cgagtcctcc gacgcgtccg cacagctgct tcctctcgct ttgccggcgc 60
cgccaatgcc tggcatgggt ggctctccac ctccgatggg tggaatgggc atgcctccca 120
tgggcgggat gggatatgcc cccgatgggc ctgggtccgat gccagcattc ggaatgggag 180
gctactgagt ggtggttttg cagggagctt agatgatgat gtgaattgtt ccattgcaag 240
cataagcgga acctcattgg agctgtagat gggtttacagt ttgggaaatc aatattcttt 300
attgtaccag gaaacttttt ttttttgggc gagtgagcag cctggcccat agtttgtgaa 360
gtgcaacctt cgatatgttt aacgatggga tcggaaatag gatgattagg ttgt 414

<210> 10927
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-A10

<400> 10927

caacaagcaa catagaaagt ggaatacagt agcaacaata gagcaacaat ggcgggccagg 60
atattttcca tccttatgct ccttgctctt tctgcatgtg ttgctaacgc gaccattttt 120
cctcaatact cacaagctcc tatagctgcc cttcttcccc cataccttcc atcaatgacc 180
gcttcagtat gtgaaaaccc agcccttcaa ccctacaggc tccaacaagc aatcgcaaca 240
agcaacttac ctttatcacc cctgttcttt caacaatcgc cagccctatc tttggtgcag 300
tcattggtac aaaccatcag ggcacaacag ctgcagcaac tcgtgctacc agtgatcagc 360
caagtagctc tggcaaacct ttctccctac tctcagcaac aacaatttct tccattcaac 420
caactgtct 429

<210> 10928
<211> 428

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-059-Q1-K1-A11

 <400> 10928

 atggcaacga gctagcggca gaggaggtgc accatggcac catggatgtc tggcgtgacg 60
 tgatgcacaa tcacgctgct agctgttgat ggcagtagct gctgcaggaa gcatcgaacg 120
 tctgtgctca ctcgctagta tggctacact tattcgtcaa tcactatgac catcaagatg 180
 ttccgtgtgc gaagatgcaa tgcaattgg ataatgatc caacaggtagc tggtagctac 240
 tattggacat gtgtaactgt tgctcgtagc acaatcatca tccatattac atacaatgca 300
 ttagacgctt agattgtgac gacacatacc gtgcgaacga ctgccactgc tcgtgctaac 360
 gctgcttgat gcatactgtg atgcacaact gactccggag gtgcatttgg tggcacgaag 420
 cataccgg 428

<210> 10929
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-059-Q1-K1-A12

 <400> 10929

 cccacgcgtc cgcccactcg tccgaaacag gacgatttgc ccagacttgg tgtttttggt 60
 gctgttgaaa tctccgatcc ctttggggtg acccactgga catggccaat ttgtcacaat 120
 ttattatttt gacccatgtc atgtgaaact ctttctgttg aagtctggta tctagattga 180
 cttgtatcag agctgtggtt tacgcagact ggattctgga gtactggact gtgtgtgtgt 240
 ttttcggaac tgtgcatctg acttttagct gttcgttgac tttgtttttc ttttttcaga 300
 taaagagctg tttcttgatt tgatgcagaa aaaaaaacta caacaactca agctaact 360
 aaaaaataaa atacaaaaaa caaaaacaat atcataaaat gcatttgata gc 412

<210> 10930
 <211> 446
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3059-059-Q1-K1-A2

<400> 10930

gttgacaaga agactagaac cgaacctgac catgtcgtcg atccgccgca gcaacgtggg 60
cgatcgggttc tccctcgacc tatgggaccc ctttgagggc ttcccccttcg gctccggcag 120
cagcagcagt ctcttaccct cgttccccgcg gaccagctcg gagaccgcgg ccttcgctgg 180
cgcgcggtatc gactggaagg agactccaga ggcgcacgtg ttcaaggcag acgtaccggg 240
gctgaagaag gaggagggtca aggtggagggt cgaggacggc aacgtccttc agatcagcgg 300
cgagcgcaac aaggagcaag aagagaagac ggacacctgg caccgcgtgg agcggagcag 360
cgggagattc ctgcgcatgt tccgactgcc cgagaacgcc aagacggagc agatcagggc 420
cgncatggag aacggcgtgc ttacag 446

<210> 10931

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-A3

<400> 10931

accggttctc ggattaccga ctcgteccac tcgctcgtcg taccctacg gttctgctcc 60
ggcttcgtga ggttctccgt ggttggtgtt ctgggggtgt cggatcgata tgtcctcttt 120
caatgttcac tactcgcttc tattttcatt ggactctgct gagccacgta ccaccactcg 180
ctgaacaacg ctttctgcac ctaccgagat gtcctatagt acatgatcct cctcgatctg 240
cagacgcaca tgttacgtg attaggatta accatcttat acacatatga tgcaatgcgg 300
cacgccatct tagtgcatga actgtctgga gctatacggg cgcaacatct ccgtcaa 357

<210> 10932

<211> 241

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-A4

<400> 10932

atcatgcact agcgttgggtc gtacgccact cctgacaagg catgatcgga ctttcacgtg 60

gtccggtcct gctgctcagc atatgcccgc cggcagagat tgccttgag atcccatctc 120
 ttacgcctac tcttgagac gccactctgg aagcgttact gcgatgaaac aggctcagcg 180
 ctgtagatta ttgtcccgaa gtttcttgct agccctgaag aacactaact gcatgtagcc 240
 a 241

<210> 10933
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-A5

<400> 10933

cccacgcgtc cgcaacaagc aacatagaaa gtggaatcca gtagcaacaa tagagcagga 60
 atggagacca agatatatttc cctccttatg ctcttgctc tttctacatg tgttgctaac 120
 gcgacaattt tccctcaatg ctcaaacgt cctatagctt ccctttttcc ccatacctt 180
 ccatcaatta tagcttcagt atgtgaaaac ccagctcttc aaccatatag gtttcaacaa 240
 gcaatcgag caagcaacat acctttatcg cccttggtgt gtcaacaatc gccagcccta 300
 tctttggtgc agtcattggt acaaaccatc agggcacaac agctgcagca actcgtgcta 360
 cctgtgatca accaagtagc tctggcaaac ctttctccct actctccgca acaacaattt 420
 cttccattca accaactgct ta 442

<210> 10934
 <211> 418
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-058-Q1-K1-H12

<400> 10934

ccggtccgat tgcggagcgt ccgccaccgt cgccaccgtc gccaccgtcg attgatccac 60
 tagcaacatc atatggatac actacacatt tacaccaatg gcagccaaat tttgcctctt 120
 gccctccttg ctctttcagc aaacgttgct accggactat tattcacaat gtcacaaca 180
 atacctcttc cggtgacagc cgcgagattt gaatacccaa ctatacaatc ctacaggcta 240
 caagaggcca tcgcacaagc atcttaacggt cgtagcattg actgttcaca ccatatgccc 300

tattgcaaca accatcctaa tgaatctata tcntccaaga atcgtagcac atcaactaca 360
acaacaattg cttccacaat ncaaacaaga gtttcagcga acttgagctt acctcagc 418

<210> 10935
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-F8

<400> 10935

gttggttctt cctccccctc cgggttcgtgt tcgggttcgt gaggttctcc ggggttcggg 60
ttcgtgggtg agcggatcga gatggcggcg tcggatgttg agtaccgctg cttcgtcggc 120

ggcctcgcct gggccacgga cgaccactcc ctccacaacg ccttcagcac ctacggcgag 180

gtcctcgagt ccaagatcat cctcgatcgg gagacgcaga ggtcccgcg cttcggcttc 240

gtcaccttct ccacggagga ggcatgagg aacgccatcg agggcatgaa cggcaaggag 300

ctggacggcc gcaacatcac cgtcaacgag gccagatccc gcggcgccg tggaggcggc 360

ggcgggtgggt acggtggtgg ccgtggaggc ggcggctacg gcggtggcg gcgccgtgat 420

ggcgggtggcg gctacggcg tggcg 445

<210> 10936
<211> 288
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-G1

<400> 10936

cggacgcgtg ggtgccgccc ccggttcacg tgccgccgcc accatgccac taccctacgc 60

aaccgcgccc gcctcagcct catccccagc cacacccatg cccgtgccaa cagccgcac 120

caagcccgct ccagctgcag ggaacctgag gcgttgccag caccctcagc ctgggccagt 180

gcgtcgagtt cctgagcat cagtgcagcc cgacggcgac gccctactgc tcgcctcagt 240

gccagtcgtt gcggcagcag tgttgccagc agctcaggca ggtggagc 288

<210> 10937
<211> 435

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-058-Q1-K1-G10

 <400> 10937

 ccactcgtc cgattgagac caactagcaa catagaaagc acaatagtgt accaacaagt 60
 gcagccaaaa tattttgctt ccttatgctc cttggtcttt ctgcaagtgt tgctaccgcg 120
 accattttcc cacaatgctc acaagctcct atagcttccc ttcttcccc atacctatca 180
 ccagcgggtgt cttcagtata tgaaaaccca attgttcaac cctacaggat ccaacaggca 240
 atcgcaacag gcatcttacc attatcacc ttgttctcc aacaaccgctc agccctatta 300
 cagcagttac ctttggtgca tttggtggca caaacatca gggcacaaca actacaacaa 360
 cttgtgctag caaaccttgc tgcatactct cagcaacatc agtttcttcc attcaaccaa 420
 ctggctgcat tgaac 435

<210> 10938
 <211> 436
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-058-Q1-K1-G11

 <400> 10938

 gcaacatgca gatgtagcaa tgcacgaga ggagggtcaa cttttgaatc tattgaaggg 60
 ccatgatcaa gaatacaatg ttgatgagat cagcatgaat gacaagctca ccaactgtgg 120
 ccatcagata actattatgg aatatgccg atttccttcc cccactgttg ccttgaagga 180
 gggcctaact gcatcaagtt agcagagtgt tcagcagagc tacgaagaac ttgaagcagc 240
 atttgagcca gggaaagaat tctgctttga cgcgacaatt cgtttaaact aagcttgcca 300
 ctaggattga tcaccagcct cctccaatat tgtgacctca ttagtagttg ttaagaaatg 360
 tttatcacgt gaagcagaat tgtgtaaaat atcatgaggc atgagcgtaa tgtatttgtg 420
 tggcattaac ccataa 436

<210> 10939
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-G12

<400> 10939

tccccgggctg acgttcattc cggttgggtg actgatccag gtattagcag tcaaccggtt 60
cctcggagca cgatgaagtt ggctgctgac tacctgctag ctgtcctcgc tgggaacgcc 120
agccccctgcg ctgacgattt gactgccatt ctggagtcag ttggctgtga agttgacaat 180
gaaaagatgg aactcctget gtcccaactg agcggtaagg acatcaccga gctcattgcc 240
gctggcaggg agaagtttgc ttcagtccca tgtggaggca gcggtgtcgc tgctgcagca 300
gctgcacctg ctgctggcgg agctgctact gcagatgagg ctaagaaaga agagaaagcg 360
gaagagaagg aagaaagcga tgatgatatg ggcttgagac tcttcgacta ggctgcacag 420
tca 423

<210> 10940

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-G3

<400> 10940

ggacaagagt cttctagagt tcaccaatcc tggttccctt ctcctcagt ccctcaccgt 60
ccgcctgccc agccaaatgc caccgggcca acaaaatcta gcggctccac gctccccgtt 120
tctccgtgg cttccatggc gaactcaggc ctagggcttg gacttgcgcc accgggcgcc 180
gagccctctt cactccacgc ccagtgcttg gccaaacggc gcgtcgtgcc cgccttctct 240
taattcaagg gccgaaggca tggcgctgta gtatgtgtgg cgcctccagt ttgcgtgtga 300
cctccctggg gaccttcttc gcactgggtg cgaagcttga cctaacctgg ccaggccgaa 360
ccttaaacca agtcctggcg atccagatcg ttcggtgagg catgaagacc ccaagccaac 420
agccttcgga gctagcattg gcggtagc 448

<210> 10941

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-G4

<400> 10941

cccacgcgtc cgccccacgcg tccgcccacg cgtccgcgga cgcgtgggca ttacttggag 60

cgaagggttt ctttgctttc ataggggaac actttgagag ttctgaagag ctgaaacatt 120

tgaagaagt gctgcttgat cttttcagag gagaggctgt agagaatctg aaccttgccg 180

gtgtggatcg gatctatgtg tgcactgcaa tctctccac cactgtctac atgatgcact 240

gtgctctccg tctaaaaagg tcaggtacat ctattcctag gatggagctg gtcgaagttg 300

gaccttcaat ggatctggtt gtaaggaggc acagacttcc agctgaaagt ttgaagaaag 360

aagctatgaa gaccgctgaa catgctaaga agatgaaaaa tgtcaccaag gatccagtgc 420

agggcaagct gggcaaggtc tacatgcc 448

<210> 10942

<211> 407

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-058-Q1-K1-G5

<400> 10942

gtccaagccg tgcttctgct gcttggaggc agggagctga gtagcctgag cggagcgtgg 60

tcctctgcac cttatagtaa gaggttgaac tttccacatc ggggtggcatc actgatgaga 120

tttagggaaa agcggaagga gcggaacttt gataagaaga tccggtacaa tgtccggaag 180

gaagttgcac ttaggatgca gcgtaataga ggtcagttta catcttcaaa accaaagcct 240

gatgaaatag cagcatcaga aaatggcagc tgcagatggc tctctgaatt gngcactagt 300

tgaagggccg acctccatct gctgctgaat ggtcatccct gtggtattaa tgcaacagct 360

acaccaatga tgcgtcgggg accttgatgg accaagaaca ctatgca 407

<210> 10943

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-G6

<400> 10943

cggacgcgtg ggcggacgcg tgggcggggc tcatcatgca tctcctcagc ggcgcggcg 60
 tcgtcggatga cggcggtctt gactctgagt cccgtgaagt tgccgttccc gggttgccgg 120
 agccggagat acggatcccc gtcagcagc tgccggagtt cttgagacgc ccagcgaagg 180
 gccaaaggcac gttgaacct tgcaacgcgg cgatggccag gtgcctgggc gtcgcctaca 240
 acacgttcgc gggcctggag caggagtacc gcgaggcgag catgcgcgtc gcgtccttga 300
 agcgcagcta cttcgtcggc cccgtctcac tgccgtgcc gccggccgcg gcaggcgtca 360
 ctgagcctcc atgcatccgg tggctccact ccaagccgag ctgctcgggtg gtgtatgtgt 420
 gcttcggcac ctacgccgcc atctcg 446

<210> 10944

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-G8

<400> 10944

aaaaaaaaaa aaaaagaaat aaaaaaat ttt aaaaaaaaaa aaaaaataaa agaaaaaaaaag 60
 aaaaaataaa aaaaaaaaaa aaactaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa atttgcccc ctttttaag 180
 ttccaatttt ttcttcccct tatttccaaa tttttatttt tttttttttt cccctaaatt 240
 taattcattt gccatcttt ttaaaacctt atttttgaaa aacccttttt ttaccaatt 300
 ttattccttt tcaaaaaatt ccctttttcc caatttgtgt attttccaaa a 351

<210> 10945

<211> 434

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-058-Q1-K1-G9

<400> 10945

cccacgcgtc cgcaacagct atcgtcaa atcagacatt cccagcaatg actatgctag 60
 taattataca gaggaacat caatacaact tccagaaata ggcaccagca atactattgt 120
 tcaaggatcat gttgatgtca atgaacaccg atttgatgga ccaagaacaa tcgaagaat 180

cgttcctggt ccattggatg agatacagat ccatgaggat gtcccagggc aaccgggagc 240
 agccgatgag atagatgagg ttccattttc tgacgctccg atcattggtg ctccattcag 300
 actgatctca tttgttgcta ggtatgtcag cggcgctgat ttggtcaacc aaaaataact 360
 gtctgcatac caggaattca ggactnttat gtcaggagtt cctttttgat cccactgata 420
 attacgtcag tatc 434

<210> 10946
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-H11

<400> 10946

cccacgcgta cggtagcaca cttcgttcag tgaagatgag aagaagcaat ccaagcagct 60
 gaagagcagc tgctacctaa acaatgctgc ctgcaaactg aagttgaagg attacaagga 120
 agctgcgaag ctttgcacca aggttctgga actagacagc caaaatgtca aggctctcta 180
 caggaggggtg caagcttaca ttcaacttgc tgacctagag ctagcagagg ccgatatcaa 240
 aaaggcactg gaaatcgatc ctgacaacag ggatgtcaag ttggaatata agatcctgaa 300
 ggagaagatc aaggagtaca acatgaagga cgccaaattc tacagcaaca tgttcgccaa 360
 gatgacaaag tagcttttgg ggtggaggat gttgtggtga agcgaacgga ttaaaaacac 420
 cgatttctg 429

<210> 10947
 <211> 440
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-058-Q1-K1-F6

<400> 10947

gcaccagaag gagctctttg tcgcagccga gggcatgtac acggggccagt tcgtctactg 60
 cggtcgccgc gccaccctct ccatcggaac cgtgctgccc ctccgcggga tccctgaggg 120
 tgccgtcgtc tgcaacgtcg agcaccacgt cggtgaccgc ggtgtcttcg ccagggcctc 180

tggggactac gccattgtga tcagccacaa ccctgacaac ggcacatcga ggattaagct 240
gccctctggc gccaagaaga ttgtccccag cagctgccgt gccatgattg ggcaggttgc 300
tggtggaggc aggactgaaa agccgatgct caaggctggt aacgcgtacc acaggtaccg 360
tgtgaagagg aacagctggc ccaaggtgcg tggtgtggcc atgaaccctg tggagcatcc 420
ncacggagga ggtaaccacc 440

<210> 10948
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-E2

<400> 10948

cgacaaaatc cctcaccctc gtgagtcttg acgccctcgc ccgtgctcgc agttggtagg 60
gttgtagcca tggcgtggag cgccgccgcc gtctccaggt tcgccgccgc ctccccaccc 120
gcggcaccca tctccgtcag gcttggagcc gccgcttctc gctcctccct gtccttctcc 180
agtgggcgcc gacgccccgt ggccgcgtcc ctctcgacct ctgccaccgt tgtaaaggag 240
gctgttcaga cagagaaggc accaccagca ctaggccctt attctcaggc catcaaagca 300
aataatcttg tgtttgttcc tggagttctt ggcttgaatc ccgagaccag gaagtttacc 360
tctgaaaatg ttgaggagca aactgagcag gttatgaaaa acatgggcga gatattgaaa 420
gctagtgggtg ctagctattc ttc 443

<210> 10949
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-E3

<400> 10949

aagacgcgcg cgcagaagca cacctgctcg ggctggatta agaagacagc tttttcgggc 60
gcgacgtggc ggaggagaag ggcgcgttgc agtcggcgag ggagtgggtg gtcgaccaca 120
agctccgggc cgtcgggacg ctggggctca gcggcatcgt cggtccatc gcctacaact 180
ggtccaagcc gggcatgaag accagcgtca agatcatcca cgccaggctg catgctcaag 240

ctctcacgct ggctgccttg gctgggtccg cgctgggtga gtactacgac caccagcaag 300
 ggtcaggatc gaaagttcac caatttgcaa agcagtttct ttcattgat ag 352

<210> 10950
 <211> 398
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-058-Q1-K1-E4

<400> 10950

cccacgcgtc cgcccacgcg tccgggctca caggtaaagg cggcatggtc ttcggttcgg 60
 gcctgtgccc caagcgcatt gtggtggacg cgcgccaaca catgctgggc cgtctctcct 120
 cgaacattgc caaagagctg ctcaatgggc agaagggtgt cgtcgtccgc tgcgaggaga 180
 tctgcatgct gggcggcctc gtccgtcaga agatgaagta cctccgcttc ctccgcaagc 240
 ggatgaacac caagccgtcc caccgggcca tccacttccg cgcgcccggc aagatcctgt 300
 ggcgcacat ccgcgggatg attccgcaca agaccaagag gggggaagcg gctctggcga 360
 agctcaagac gtacgagggc gntccggcgg cgtacgac 398

<210> 10951
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-E6

<400> 10951

gtagcaacaa cagagcaaca atggcgacca agatattttc cctccttatg ctccttgctc 60
 tttctgcatg tgttgctaac gcgacaattt tccctcaatg ctcacaagct cctatagctt 120
 cccttcttcc ccatacctt ccatcaatga tagcttcagt atgtgaaaac ccagctcttc 180
 agccctatag gtcceaacaa gcaatcgcag caagcaacat acctttatca cccttggtgt 240
 ttcaacaatc gccagccta tctttggtgc agtcattggt acaaaccatc agggcacagc 300
 agctgcagca actcgtgcta cctgtgatca accaagtagc tctggcaaac ctttctcctt 360
 actctcagca gcaacaattt cttccattca accaactgtc tacactgaac cctgctgctt 420
 atttgagca acaactatta ccat 444

<210> 10952
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-E7

<400> 10952

cgcaaattgc accaagaaat ccatcgagag gccgtcgaca ggggaattaa tggcgtcggg 60
gtctagcagc agccaccgcc gcctcctcct cgcagccgcc gtctgtctct ccgtgtctgc 120
ggctgccagc gccagcgccg ggacctcttg cgtgccgggg tgggccatcc cgcacaaccc 180
ggttccccgag ctgccgctgg tacgtgacca gccggacctg cggcatcggg ccgcgcctcc 240
cgtggccgga gctgaagagg agatgtgtcc gggagctggc ggacatcccg gcgtactggc 300
gggtgcacggc gctgagcatc ctcatggacg gcgcgatccc 340

<210> 10953
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-E8

<400> 10953

atcagcagct tctgcttgct ttgtggggga aggagagaga gagagagaga gatctagggg 60
agaggctagt aggtggtcct cgaacgaaga tggtggcggt gttcagcgct caggtggtgg 120
aggtgccggc cgactgctg gcagctggca gccggacgcc gtcgcccacg acgaaggtct 180
ctcatctggt ggtcgcgctt cctggccgcc tccgagcctg ccgtgtccgt gcagttcggc 240
caccacagtc acctcgcta ctccacacc aaccacgcgc tctacgccc caggtcgttc 300
gcggcccagg accaggtgtt ctgactgac gagcgggtgc tgcacacct gagtcgtctg 360
aaccatgcac acgggctgtc atgcaagggc gccaacgagg tgctcctagc catggatgcc 420
tac 423

<210> 10954
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-E9

<400> 10954

cggacgcgtg ggcggacgcg tgggggggtg gcttctctc cccctccggt tcgggttcgg 60
gttcgtgagg ttctccgggg ttcgggttcg tgggtgagcg gatcgagatg gcggcgtcgg 120
atgttgagta ccgctgcttc gtcggcggcc tcgcctgggc cacggacgac cactccctcc 180
acaacgcctt cagcacctac ggcgaggtcc tcgagtcctc gatcatcctc gatcgggaga 240
cgcagaggtc ccgcggcttc ggcttcgtca ctttctccac ggaggaggcg atgcggaacg 300
ccatcgaggg catgaacggc aaggagctgg acggccgcaa catcacgctc aacgaggccc 360
agtcccgcgg cggccgtgga ggcggcggcg gtgggtacgg tggtgccgt ggaggcggc 419

<210> 10955

<211> 110

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-F1

<400> 10955

gttactgatg gttcaaacgg tctttacagt gtcttggttg tgtagtgct tgtttatctg 60
acattttag tgaagctgga cgtgcgagga atattgaatt ctcttcctac 110

<210> 10956

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-F10

<400> 10956

ggagttctgg ggtctcgagg tcaaacctgt atccactgtc aagtgtgagc ctgtactgac 60
tttgtcctgc acgtttccca ggctgccctt ggggaatcaa agaaaagtga cagtgcctta 120
atgtatgtca aagttgatga caagaagctt gccattggaa cgctctctat cgacaaatac 180
ccacagatac aattcgattt ggttctcaat aaagagtttg agctgtcaca cacatcgaaa 240
actaccagtg tatttttctc tggttacaag gttgagcagc caattgaggg agatgaaatg 300
gatcttgatt ctgacgatga acaggaggag ctaaacattc cagtaatcaa ggaaaatggc 360

aaaggtgatg ggaaggagga gcagaaaaat caagagaagg cagtagctgc tacagcttca 420
 aaatcaagtc ttg 433

<210> 10957
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-F11

<400> 10957

cggactcgtg ggaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaag 60
 gaaaaggga aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaagaaagaa aatattaaaa aaaaaaattt ttataaaaaa aaaaaaaaaa 240
 aaaaaaattt ttatataagg gaaaaaaaaa aaaaaaaaag gagggatttt aaaaaaaagt 300
 tgaattgaaa aaaaaaagggt ttaacaaaat aaattagggtt aaaaaaaaaa aaattttttt 360
 aaaaaaggga aaaaataaaa aaaggctaaa aaagaaatt ttataaaa 407

<210> 10958
 <211> 330
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-F12

<400> 10958

ctgaaatact gtaggacta gtttggttac tctatttttt caagagattc atatttttgc 60
 aagtggaaat gaattaattt tcttttgaga aaatagaaag aaatcccttg aaaaaaatga 120
 gattctctag gagccataaa accggagtaa attggaggag cttaaattcat cttttttatt 180
 caattttgaa taagaggaat ttagctcttc tggttttgtg gcttccaaac taaggttgta 240
 ttctctaaga tattttgtgt gctgctgctg ccaatgtact gtaaatatct actaccatca 300
 aagttattga tgttctctaa gctatttttt 330

<210> 10959
 <211> 452

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-F2

<400> 10959

cccaacgaga agagcggcgg cgcgggcgga caaggagcag gcggaggaag agctgtgcga 60
agccagaatg ggtatctcac gcgactcgat gcacaagcgc cgtgccaccg gtggaaagca 120
gaaggcctgg aagaagaagc gaaagtatga gcttggtcgc cagccggcca acaccaagtt 180
gtcaagcaat aagacagtga ggaggggtccg tgttcgtgga ggtaacgtga agtggagggc 240
tcttcgcctt gatactggta actactcatg gggaagtga gctgttacc gcaagacccg 300
tatcctcgac gtggtctaca atgcatcaaa caatgagctt gtgaggacac aaacccttgt 360
gaagagtgcc attgtgcaag ttgatgetgc ccattcaag cagtgggtacc tactcacta 420
tggagttgac attggtagga agaagaaaac cc 452

<210> 10960
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-F3

<400> 10960

caagcaccga aatcgacgaa ttcttgcccc ctctgcgac tcgacgcgca ccgatgcggg 60
cgatgtggtc ggcggttaat ggtatgctgc gggcacggct gcgcggggca gcgcgcgttc 120
gcggcgccgg cggcgaaggg gccgggcggt ggacgacccc caggtcacga ggagcgcccc 180
aaggggtacc tcttcaaccg gccgccgccg cctccggggg aatctcgcaa gtgggaggat 240
tgggagctgc cctgctaccg ggacctcctt cctcacgcgc gtcactctcg gcg 293

<210> 10961
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-F4

<400> 10961

ctcagtatat atgcgaaaat gatggagttt ttaagttaag tatctttatg gcctcttggg 60

gttcgggggtg aacttttactg taagttcttt ttcttaaacc accaccaatt ttcaaattgg 120
 tcacctcttc cttctttccc ttatgacatt gaggttatg tttatgttcc tgaagccgat 180
 atcctgtcag tcttagatgt gcctcctggg aaaatgggac gagttattgg cagaaagggg 240
 tcaacgataa tggctgtgaa agaatgttgc aaggttgaaa tacatattgg tggtgctaag 300
 gggccttcag acaggggtgtt catcattgga ccagagaagg atgtcaggaa agctgaggcc 360
 atctttcgag gccgaatgct ggagttctag agatgttacc ctttgcgata caggtttcaa 420
 ctgctttata ttttgaacgt aaaa 444

<210> 10962
 <211> 360
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-F5

<400> 10962

caaacagaag tgggtgtagtg ctcttaacaa ctgcaccttt gatggtggga tcgagtatga 60
 accacaatgt gacagtatga gcaacatgtt taataatgtt tctgataagt tgacttctct 120
 ttgtgcaatt gctgttgctg tggataaaca gactgaagat tggagggaaa aagaattaga 180
 tgaggatgca cggtgtttcc aaaggccacc tgcttgcac ataaaataca gtgatatttt 240
 gaatcatgca gcaaagggtt atacacctta gaatctacaa actgtttgag acagattttc 300
 ttgatgggtg tggagccaca aaattcaaag agcttccgtg tcaagataac aatacatatc 360

<210> 10963
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-E12

<400> 10963

aacataaaaa gtggaataca gtagacacta acagaggacc aacggtctac aagatccaag 60
 ctctcggtat cctgcttgct atgtctgcat gtgttgataa cgcgaccttt attcattaaa 120
 gctgacaagc ttctataact tcctacttg caaaatacct tccataaccg actgattcag 180
 catgcgaaaa atcagctttt cagcactata cgctacaaca agcagtcgca gaacgaaaga 240

tatctttatc acccttgcag cctgaacaat caacaggact atctttggag cagtcatatg 300
 ttacaaacca tcatggcaca gtacctgcag caactcctgc tacactgtga tcaaccaata 360
 agctctgtca tacctatctc cctactctca ttatcaacaa tttcttcca 409

<210> 10964
 <211> 419
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-034-Q1-K1-E3
 <400> 10964

cgaatacaat ttaaagatga tatagtaatc tcgtcacctg atgtatctct ggtagagggt 60
 ggaccagacg tggaatttgt tctgttagca actgatggtc tttgggatta cataaaaagc 120
 tctgaagctg tagcttttgt cagagaacaa ctccgtcagc atgggtgatgt ccagttggcc 180
 tgcgaggcac ttggtcagaa agctctggat caacgggtccc aagacaatat tagcatagtc 240
 atagctgact tggggaggac aaactggaag gcgttgcccg atgaaaggcc gaacttggtc 300
 ttggaactaa gtcaagcagt cgcgacttgt aggggtgtct caataagaat ttgggtctcg 360
 tcgttccttg ggttacagta gaactagcta ctccgtncgg atgtgtatat tacctactg 419

<210> 10965
 <211> 442
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-034-Q1-K1-E4
 <400> 10965

cccacgcgtc cggggaaaat tcttctgaa gggatcgggtg aggttcaaga aatcatggac 60
 atgtgtgatt atgctgtggg gctaagtcgc caactaaatg gatccattat accatctgaa 120
 cgaccaaacc atatgatgat ggaagtgtgg aatccccttg gagttgtggg tgttataacg 180
 gcatttaatt tcccttgtgc tgtgcttggt tggaatgctt gcattgcttt ggtctgtgga 240
 aattgtgtcg tctggaaagg tgctccaaca actccactga tcaactattgc aatgacaaaa 300
 atagtggcta gtgtattgga gaagaacaac ttgccaggcg caatttttac atctttttgt 360

gggggcactg aaattgggtca agcaattgcc cttgacatta ggataccttt ggtttcattc 420
actggaagta caagggctgg tc 442

<210> 10966
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-E5

<400> 10966

cggacgcgtg ggaaaaaaaa aaaaaattaa aaaaaaaaaa aaaaaaaaaa aaaaaaaga 60
aaaaacaaaa aatttaaaaa ataactaact aaaaaaaca tgcacacctc ttcttaattt 120
ttcttttttc ctctctcatt cttactacct cttagttttt atataacgtt cttacttta 180

aattccctgg cttacttta ctaacttggc ttctggtaaa tccttctttt tccccctttt 240
attctccttg caacgcatcc acctttcttc atttcaatta ttgcccaga ttccttaacc 300
attcgcactt tccatcattt gcccaa 326

<210> 10967
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-E7

<400> 10967

cccacgcgtc cgcggacgcg tgggcccgtg ccgcacaaaag acgagaggaa gagggtcggg 60
gcgcctccac caccatgtcg tcgatgatga acgcgctggc gaactggctg gcgaacccgc 120
gccgcaacct gctggcgcgc ctccacatgc acgccgtctc ctgcgcctc aggaaatagc 180
gactgaggta cgacgacctc tacgacctc attcgatct ggacatcaag gaggcgctcg 240
gtaggctgcc tagggagggtg gtcgacgcc gcacccagcg cctcaagcgt gccatggacc 300
tctccatgaa gcaccagtac ctcccggagg acctccaggc acagcaggtt ccattcagag 360
gatatttggg tgacatgttg gcgttggtga aaaaggaaaag cgccgagcgt cagtcactgg 420
gagccct 427

<210> 10968

<211> 444
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-034-Q1-K1-E8

 <400> 10968

 ctctttgcg c ttcttgccct ttttgtgagc gcaacaaatg cgttcattat tccggagggc 60
 tcacttgctc ctagtgccat tattccacag ttctctcctc cagttacttc aatgggcttc 120
 gaacacccag ctgtgcaagc ctacaggcta caacaagcgc ttgcggcgag cgtcttataa 180
 caaccaattg cccaattaca acaacaatcc ttggcacatc taaccataca aaccatcgca 240
 acgcaacagc aacaacaatt tctaccagca ctaagccaac tagctgtggt gaaccctgtc 300
 gcttacttgc aacagcagtt gcttgcatcc aaccacttg ctctggcaaa catagttgca 360
 taccaacaac aacaacaatt gcaacagttt ctaccagcgc tcagtcaact agccatggtg 420
 aaccctgccg nctacctaca acag 444

<210> 10969
 <211> 414
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-034-Q1-K1-E9

 <400> 10969

 caaggggtgc aaccctgatg aggctgttgc ctttgggtgcc gctgtgcagg gaagcatgtt 60
 gagcggcgag ggtggtgacg agaccaaaga tctctcctc cttgatgtgg ctccccctac 120
 cctgggtatc gagaccgtcg gtggagtcac gaccaagttg atccccgagga aactgtcat 180
 cccgaccaag aagtcgcagg tggtcaccac ctaccaggac cagcagacca ctgtctccat 240
 ccaggtcttt gaggggtgagc gcagtatgac caaggactgc cgtcttctcg gcaagttcga 300
 cctcaacggc attgcgccag ctccaagggg cacacccag atcgaggtga ctttcgaggt 360
 ggacgccaac ggtatcctaa acgtgaaggc ggaggacaag ggcacgggca agtc 414

<210> 10970
 <211> 397
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-F1

<400> 10970

ccgacgcgta cgagaggggtg atgaggatat tggtaatcgt gaggatcaca agctcgagta 60
ggatggtcag gagcttgagg acaaccagct gatagctgat attagcagga cggatgatgc 120
tgagattcat ttattcatcc gcaaaccagc aaaggtatgg acacaacaag ttgatggaga 180
tactttggtt acagttgtca atccacaggg gaaaggcaac ctgcaaaatg aagctggctc 240
agtgaactcc gcaaactcag ttgtggatag gcctgtccat gttgaaccaa tagttaaccg 300
aaaagccaag ctgtcatgtg aagtgatgaa tatgataaat tcaaccatag ctggactgga 360
gaaagggcac ctgactgtga tgtcagctga acgttca 397

<210> 10971

<211> 261

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-F10

<400> 10971

cgcaaccctc ttacaactac aacaattgct gccctttgta caacttgctc tgacagaccc 60
agcgggctcc taccaacaac acatcattgg tgggtgccctc ttttagatag cttattagct 120
gcaattcaat aatcaagtta totggatgat gtatgtggcc aaccagaaat aagaagctac 180
atttacagat tctagaggca aaactggata aaaacgatag actgctggat ttcacacaca 240
aaccttgatc tgcattgtgtt g 261

<210> 10972

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-F11

<400> 10972

gctgttcgag aaaatctgct cagcaggtcg attcagtga gatgagtcca ggtatttggt 60
ccgacatctg atatcagggg tcagctactg ccattctatg gaaatttgct accgtgatct 120
taaacttgag aacaccctcc ttgatgggag tccaacacct cgtgtgaaaa tttgcgactt 180

tggttactca aagtctgctt tgctgcattc caaaccacaa tcaacagttg gaactccagc 240
 atacatagcc cccgagggttc tttccagaaa agagtatgat ggaaaggtag cagacgtctg 300
 gtcctgtggt gtcacgctgt acgtgatgct cgtgggatca tatccatttg aagatcctga 360
 ggatccaagg aacttccgga aaacgatcag cagaattctt ggcgtgcaat ac 412

<210> 10973
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-F12

<400> 10973

ggcgtcggcg gatagcgcta ctgctagtag gagaggaagc ggaaagggcg ggcggggggc 60
 ttgtggtcag tcaaagatcc aacctccgga ctcgcgatgg ggcggcgcat cctcaacgat 120
 gctctgcgca cgatgggtcaa cgcagaccgg cggcggaacg cgtcggcgct tctccgaccc 180
 atctccggcg tcatggtctc ctctctcaac atcatgaagt accgagggtg tatcaaaaaa 240
 tttgagggtca ttgatgagaa tagagctggg aaaattagag tggagcttga tggacgtctt 300
 aaagattgca aagctctcac ctacaggcaa gacctcaaag ctaatgagat agaacgatac 360
 agagtttaga tgctcccaac acgccagtgg ggctatgttg tgattactac 410

<210> 10974
 <211> 446
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-F2

<400> 10974

gcgctccgca ggcagcatca agcatggcgg acacgaaggc gtcacccgcg gtgacgctgc 60
 ggacgccccaa ggtcatgacc aaccggcttc tttcccgcaa gcagttcgtg ctcgaaggctc 120
 tccaaccggg ccgggccaac gtctctaaag cggagctcaa ggagaggctg gctaagatgt 180
 acgaagtgaag agatcccaac tgcattctcg tcttcaagtt ccgcaccac ttcggaggcg 240
 gcaagtctac cggattcggg tcatctacg acaacgtcga ctcagccaag aagttcgagc 300
 ccaagtacag gcttatcagg aacggctctg ctaccaaggt ggagaagtcg cgcaagcaga 360

tgaaggagag gaagaacagg gcgaagaaga tccgcggtgt gaagaagaca aaggctgggg 420
acgccaagaa gaaatgagcc aggttt 446

<210> 10975
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-F3

<400> 10975

ccagttttcc aggccttcga cggttcttcc ctggccttcg tcgcgttcgc cagaaaaggc 60
atggaggggg ctgatggcaa gcaagagtca gaaactacat gtataatcaa agttcctaaa 120
gagcctgccatcattatcaa tggcggttcca gattttcctt ttgattgcac aactggttct 180
caatctgcag taaaaaatga cgcagaatct catgttgatc ctcgttttgg tgaatggtta 240
gaagggagga aagtgcgtaa gctttttgga gacacatatt tcgtcgggaa agtggccaag 300
tatgacattg aaagcaactg gtacaccgtc atttatgatg atggagacca ggaagatctt 360
gaatggcggtg aacttgagaa agttctactg ccattggaca taactgttcc acttaaaaac 420
actgttatcg 430

<210> 10976
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-F4

<400> 10976

cctccagcct cttgagcctc ctcaaact cacttttcaa ccggtcatct tcttggaggt 60
ggttaacaag atggtgcgtc gtcgcaacc ttcggtggtg gagttcaaca gtgactccga 120
cgaaatccaa gaggaatcgc gtgttcttcc tcttcgcct cggcgttctc tctccaagt 180
aggacgaggc tctggccggt tggaaagggg aggaccctcg atgcccttgc aacctgggcy 240
ccaagggcgt caaaagggtg gcgccactcg tccccgtcga agcaccttct tcgctgtata 300
cgctccttgc caggaggagg atggagcttt tgacgacgag gtcgaacctt cgtcatccga 360
cactccccctc gtcacgggac tccacatgca tccggcgact gtgtcccatg ggccgaatga 420

accttcagtc gacttctc

438

<210> 10977
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-F5

<400> 10977

ctgacactgc tttactatca agagttatta gtacacatac cagcagctga tgctgtggtg 60
atcatcataa acatcttcag gatcctcadc tacaacaaca tcattcacca aggcacacat 120
catacaaacac agacacacac atcatcacta tcagcagctga cacaacaac tacatgttac 180
~~catgcgatca-caaaaacatt-aacaacaaca-tgaagtacat-gtacagacaa-caacaacaat~~ 240
gactgtagca tcagcagaac atacaacaac ggcaccagct acaacatcat gaatgtgaaa 300
gtcatcaact catgaccatc aatctacagg ccatgtgcaa caatacgaac agagccatgt 360
acatcactaa gacagagcca tgagcaacta catcgacaac aatatcagcg tcatgacaag 420
cacgaacatc cacgacatgc ttatgaata 449

<210> 10978
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-D1

<400> 10978

aaggaagatg atgacctgaa gcacttttac gagaaataaa gctgccacgt gacatggggg 60
acatagagaa ggagctacag aaaaacggtt tcaagcccat gacaaatact gccaaacgac 120
tagcagctgc ccagatcaat ggcgtaaaac ccaaggctaa gcccaagaag aagcagcgtg 180
agatcacaaa acggaccaag ctacgaatg cccatctgcc tgagctgttc cagaatctta 240
acacttaaac gtgctacagt atctgacgac ggaagatggt tcattatact cctatattatt 300
gctacgttgc gtgtatgtgt tatgcagcta tgctgtatgg cttatgggta tgagcgccac 360
aaatttgctt gacaagattc tggatgatat acttatgcat tctgacataa taggaagcaa 420
aacctcaaga ttt 433

<210> 10979
<211> 298
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-D10

<400> 10979

cagaatcatt tattcaaadc ctactttatt gtatggaact actataattg gaaccaaggt 60
ctaagaatga aaagttaaag tctctgatcc atgaaccgtt gcagtggaaa tgtgggtcgtg 120
gacagtataa agtacacaga tgtgggtccac ataccctgag atactgatga taagacagtg 180
cccaaggata gtgtgactcc aacgtttgct gctgaggagc ttttcataaa taatgccaga 240
tgggatggag ttgcctatct tatgaaagct gggaaagctt tgcacacaaa acgagctg 298

<210> 10980
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-D12

<400> 10980

atgtttgtag ccgccctggc cctggtggtg gtgatggcga cgacgagcac aggcggtggc 60
aggcgggcag cggcgtgcga tcccaagccg ctggtggtgt gcgatccggc gttcatggac 120
ggagcgaaac ccgcggcagc atgctgctgc accctgcgtg cgcattgacgc atgcttgtgc 180
gtgtacgcca aagaccccaa gtttgcaaaa tacatcatca accccaacac cgacaaaacc 240
tttacctcgt gcggcatagc catccgcaaa tgctaagcaa gcgctctgcg tcgtcgcttc 300
gcttgccttt gctcttgtgt gtaacata 328

<210> 10981
<211> 168
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-D2

<400> 10981

gttcttgtga tataattaac gattcctgtt atacttggaataaactaagc tcgtcccgat 60

gcaatgcaag caaagatctg atcaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaagagga accaaaaaca ataataac 168

<210> 10982
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-D3

<400> 10982

cccacgcgtc cgccacgcg tccgcctacg cgtacggaaa ggggagagag agagagagac 60
 gagagagaga agagagagag agagagagga gtgagagacc cgcgagaggc tgccgtgtaa 120
 ggaccgtaga ctacgcgact gcgaaggatg gataagggga tggccgggat cggaccgatc 180

aggcaggact gggagccggt cgttggtgagg aagaaggcac ccaccggcgt cgccaagaag 240
 gatgagaagg ccgtcaacgc cgcgcgccgc gccggtgctg agatcgatac catgaagaag 300
 tacaacgctg gtacgaacaa ggcggcatcc agcggtagat ccctcaacac caagcgcctc 360
 gacgacgaca ccgaatacct cgcccatgag cgagttccaa gtgatctgaa gaagaatctc 420
 atgcatgcaa ggctcgat 438

<210> 10983
 <211> 436
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-034-Q1-K1-D4

<400> 10983

gcaatatctg aaggaaagtg cgtgagctaa ctggagatgt tctggtccca gttcaggacg 60
 tgcattcaca gaaacctatg aaggagagag gcatgggtgg gcacgtggac aggatcctca 120
 agcatggcgt gttcctcaaa tccggaccgc tggagagcat cttcctggct gagaagtcga 180
 tgagtaatta caagtacata agtggggaga atgcgatgtt catgaacgac cactcgaagc 240
 tggagaaaaga caccgncgtg cgcttcaagg tcctagggtt ccgctggatg gaggctgacc 300
 gccaatcca gctccttgct acgatcgtg gtgacttcct tgggccgctg tgaactgctt 360

ccacagggtca aacaggttct aatgtacatt gctcgtaga tgggtgatgg atgggttgat 420
ctgatgtgta gaatta 436

<210> 10984
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-D6

<400> 10984

gggctcgag ggtcctgccc aagcccagaa cctgagagat tcaactggctg aagccaagtc 60
agatattgtt gtgaagattg gtctccggaa aggatccaaa tcttttgagg aagcacgtgc 120
cgctggattc accgaagaga gcggaacctt gggcgatatt tgggaaaccg tctccggcag 180

cgatcttggtg ttgctgctga tatccgatgc tgcacaggct gacaactatg agaagatctt 240
ctctcacatg aaaccaaaca gtatccttgg tttatctcat ggatttcttc tgggacattt 300
gcaatcactc ggactcgatt tcccaaagaa catcagtgtg attgctgtat gccccaaagg 360
aatgggtcca tccgtccgca ggctttatgt tcagggcatg gaagtcaatg gcgctggcat 420
caactctagc 430

<210> 10985
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-D7

<400> 10985

cccacgcgtc cggaccatac atctcacttc gccaaaaaaa tttcgtcaac agttgaagtt 60
atacccatgg caaaactact cttgggtttg ctcttgccc ttgctattct agggacaaca 120
tcggctgctg gttgtgtaca agacgcgga gacatgaaac gagagtgcaa gcagtttgag 180
ctattcccag cgaacccaaa gttgccaccg tcggcagcat gttgtgctgt gtggaagagg 240
gcagatgttc catgcctatg caaatatgtt aacaaggaag tagagaagg atgggtgcatg 300
gagaagggtt tgtacgtcgc caactattgt aagaagccgt ttcaacctgg ctacaagtgc 360
gggagttata cagttcctct tagtatgtaa aaggaagtgg ttgggacatg tgggtactct 419

<210> 10986
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-D8

<400> 10986

cccacgcgtc cgccacgcg tccgtttgag cattcagaaa cacaccaagc gaagctagct 60
agcaacgact taacaacaat ggctaccaag atattagccc tccttgcgct tcttgccctt 120
tttgtgagcg caacaaatgc gttcattatt ccacaatgct cacttgctcc tagtgccatt 180
ataccacagt tcttcgacc agttacttca atgggcttcg aacacctagc tgtgcaagcc 240
tacaggctac aacaagcgct tgcggcgagc gtcttacaac aaccaattaa ccaattgcaa 300
caacaatcct tggcacatct aaccatacaa accatcgcaa cacaacagca acaacagttc 360
ctaccagcac tgagccaact agatgtggtg aaccctgtcg cctacttgca acagcaggtg 420
cttgcac 428

<210> 10987
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-D9

<400> 10987

gtgtacactg aaccctgtcg cttatttgca gcatcaaaa ctactaccat tcagccaggt 60
agctactgcc tactctcagc agcaacaatt tcttccattt aaccaattcg ccgactgaa 120
ccctctgct tatttccagc agcaaatact actaccattt ggccagctag ctacaacaag 180
ccccgcttcc ttcttgacac aacaacaatt gtttccgttc taccagcagt ttgtggctaa 240
ccccgcaacc cttttacaac tgcaacagtt gctgcccttt gtccaacttg ctttgacaaa 300
cccagcagcc ttctaccaac aacacatcat tggcgggtgcc ctctttttaga ttgcttatta 360
gttgtcattc aataatgaag ttttttggt gatgtatgt 399

<210> 10988
<211> 401
<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3059-034-Q1-K1-E11
 <400> 10988

```

gggaaatcgc tgctgtgtcg ctgtctgtta cagtgcatta ctgaattgac tatgtggaac   60
tggactttca caaggaggtg atagaaatgt ccagaccgag tcacgaaaat gtcccaaaga  120
tggtgagata ctgcatggag tctgacccat cctcgagaat gctagtcttt cagtaccac   180
caaaagggac actgtacgag catctgcacg atggagatag ctggcagcta tcttggccta  240
cactgatgaa atcagcactc gacatatata gggctatcag atacttgac actgagctgc   300
aacctccgtc tgcagatgct gactgacgt ctagttcagt gtacctaact gaagacttct   360
actcaaagat aatcgattgc gacaggagga gatatatgct g                                     401

```

<210> 10989
 <211> 415
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-034-Q1-K1-E12
 <400> 10989

```

cccacgcgtc cgcccacgcg tccgcccacg cgtccgatgg cccaagtata ctcaacgata   60
ttgggttact cttttttcct taaaaattgt gttccctgtt tctcagttat catgaaaata  120
gagtattatt tcattccata gtgccggctt ttcgcaacgt cattgatgtg cctcttgtgg   180
ttagaggatt acgcaaactc agatctgagg tgaggaagga actaggaatt gaggagaatg   240
ctaagtgctc cgtttttaat tttgggggtc agccagcagg atggaaactg aagcaagaat   300
gtctccctga tggttggatt tgtttggtct gtggtgcctc tgattctcaa gatgttccac   360
cgaacttcat taagcttgcg aaagatgctt acacacctga tgttatggca gcac       415

```

<210> 10990
 <211> 437
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-034-Q1-K1-C8
 <400> 10990

cagagggcta ctctttgtgg ttctgtgact acaagtacaa tgatgagaac accgtctcct 60
 ttgtgaccct gaacaagggt ggtggattcc tgcagcggat ggacctgtgc cgcaagtacg 120
 cctttgggaa gatgctcgtg ataggctctg agccaccctt caagctgaag ggcctttggc 180
 tcttccgtgg ccaggatggt cccaagtttg taatggacga ggtctatgac atggagctct 240
 acgagtggac caaggtggac atctctgatg agggccagaa ggagcgtgtc aatgcgatga 300
 ttgaggacca ggagcccttt gagggcgagg ccttgcttga cgcgaaatgc ttcaagtgag 360
 tgtgcttgcc tggagacaga actgttttagc ccttgaaatt gcctatggaa gagtttgccc 420
 ttttactagt gtcgatg 437

<210> 10991

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-B2

<400> 10991

acgatccact cgagcaccaa gccgagggaa ggtgaggagc gatggcgcg c gcgtgggggt 60
 cggcgaaggg cggcgcggtc gcgggcaaga agaaggggtc ggtttccttc acgatcgact 120
 gcaccaagcc agtggaggac aagatcatgg aggtcgcttc gtcgagaag ttctgcagg 180
 agcgcaccaa ggtcgccggc ggcaaggctg gcaacctcgg cgactccgtc accatctctc 240
 gcgagaagac caaggtcacc gtcacctctg acggaccctt ctccaagagg tacctgaagt 300
 acttgaccaa gaagtacttg aagaagcaca acgtgcggga ttggctacgc gtggttgctg 360
 ccaacaagga ccgaaacgtc tatgagctcc gctacttcaa cattgctgag aacgagggcg 420
 aggaagaaga tta 433

<210> 10992

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-B3

<400> 10992

cggacgcgtg gggtcttttt tctatattat ttttatgagc gatttttctc tttttgggggt 60

gttttaattt cttttttttt gcccccaaaa caaaatcaat tgtttcaatt atatcgactc 120
 taccaaaaca tttgccttca cgatataaaa ataactaaat tgtatttcct aataacccat 180
 taagtcttct aaaaacttga tgggaacaca tctgagactc cggccaccat tttatggaaa 240
 gagaccgcta aaaccatttc ttataacaac ccattgtgca aaacgtccct taaaaacttg 300
 accaagaact acttgtttaa acgcaccaag cttaattacc tactcatgcg aactgacaac 360
 ttttacatag gcgtccataa actcaattac ttggacattg 400

<210> 10993
 <211> 436
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-034-Q1-K1-B4

<400> 10993
 gccagaagtt cccaatcatg ccttttactg ctagggcatt agaagagaag cgtgcgcggt 60
 taagcttggt ggaatgcatg aaccatgaac tattgcagcc gtaccctgta cttcatgaga 120
 agccaggcga tcttgttgca cacataaagt tcaactgtgct gctgatgccc aatggatcag 180
 ataagataac atcacatcct ctacaggagt taaagcccac caaatccatt gaagacaatg 240
 cagagataaa ggcattggctt gctttgggga cgaaatcaaa gaagaagggt ggtgggaaga 300
 agaagaaagg caagaaagga gatgcagcag aagcagatcc catggaggag gcgacaaacg 360
 gtgctacaag ccaagaataa ttctgatttt tggaattact gccaccagct tttttcttgg 420
 ttcttcgctg catctg 436

<210> 10994
 <211> 434
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-034-Q1-K1-B5

<400> 10994
 ctccttggtc tttctgcaag tgctgctacg acgaccattt tcccgcaatg ctcacaagct 60
 cctatagctt ctcttcttcc cccatacctc tcaccagcgt tgtcttcagt atgtgaaaac 120
 ccaattcttc aaccctacag gatccaacag gcaatcacag caggcatctt acctttatca 180

cccttggtcc tccaacaatc atcagcccta ttacatcaat tacctttggt gcattttattg 240
gcacaaaaca tcagggcaca acaactacaa caactcgtgc tagcaaacct tgctgcctac 300
gctcagcaac agcagttacc tttggtgcaa ttgttggcac aaaacatcag ggcaacaaca 360
ctacaacaac tcgtgctagc aaaccttgct gcctactctc agcaacagca gtttctgcca 420
ttcaaccaac tagc 434

<210> 10995
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-B8

<400> 10995

aaaaaaaaata aataaatata aaagtaatta aaaaacaaaa aaacaaaaaa aaaaaaaaag 60
aaaaaaaaaa aaataaaaaa aaataaaaaa caaaaaaac aaaaataaaa aaggggccgc 120
cctttttaag gttccaatct ttctaacgca attgttcaaa gtcttaattt tcctattggt 180
gaacctaat tcaattccct ggctctttt taaaaacttg gttactggaa aaaccttggc 240
attaccaatt taaacttcct tccagaaaat acccttttaa acatttggct taatatctac 300
aaggccctac ccgatctcct ttacaacaag tatcccatcc tgaat 345

<210> 10996
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-C10

<400> 10996

ggcaattgca acttgcttt taaccttttc acccttgttc ctccaacaat catcaggcct 60
agtacagcag ttacctttgg tgcatttatt ggcacaaaac atcagggcac aacaactaca 120
acaacttggt ctagcaaacc ttgtgccta ctctcagcaa cagcagtttc ttccattcaa 180
ccaactagct gcattgaact ctgcttctta ttgcaacaa caacaactac cattcagcca 240
gctatctgct gcctaccctc agcaatttct tccattcaac caactgacag cattgaactc 300
tcctgcttat ttacagcagc aacaactact accattcagc cagctagctg gtgtgagccc 360

tggtacctta ttgacaca

378

<210> 10997
<211> 304
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-C11

<400> 10997

aaaacaaaaa aacaaaaaaa aacaaatata aaatatagaa aaaaaaaatc aaaaataaaa 60

ggagtagggt gaaaaataaa aaaaggaagc ataaatatagaa actaaaaaaa caatgaaaca 120

acaactaaca acatctgggtg ctagacaaac cttgatgact actctcatca acatcagtat 180

cttacattca tccaactaca tgcattgaac tccagcttct tatatgcacc aacagcaact 240

aacatacagc cagctacatg attcctaccg tcagcaattc ctatcattct accaactgac 300

agca 304

<210> 10998
<211> 387
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-034-Q1-K1-C12

<400> 10998

atctcactgc tgtgttggag ccagagttag cggatgagtt caaaaagggt gtcgagggtg 60

cagccaagtt tctccttagc aagctgaagg accttcaatt ttttgttggt gagagcatga 120

aggacgaagc gtccgtggta ttcgcctatt acaaggatgg tgccactaat ccgacattcc 180

tctatttctc tcatggtctt aaggagatca agtgctagat tagttacca tgttggttac 240

tatatatggt ctattgttat agccacaact atagctgccc tgctgaact gaactcaggt 300

ttttttaaga aaaaactgtc caagattgga ttgcttgta aagctaaata ttgntattga 360

cgtgttattg cttagttgtc attngtc 387

<210> 10999
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-C2

<400> 10999

caaagcggca gtgcgtagag aggatcgtcg aacagaacag catgaagatg gtcacgggc 60
tcgtcgtgtg cctggctctg tcagctgccg gcgcctctgc aatgcagatg ccctgcccct 120
gcgcggggct tgcaggcttg tacggcgctg gcgcggcct gacgacgatg atggcgccg 180
gcgggctgta cccctacgag gaggacctga ggcagccgca gtgcagcccg ctggcgccg 240
cgccctacta cgccgggtgt gggcagccga gcgcatgtt ccagccgctc cggcaacagt 300
gctgccagca gcagatgagg atgatggacg tgcagtcctg cgcgacgag ctgcagatga 360
tgatgcaact tgagcgtg 378

<210> 11000

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-C4

<400> 11000

cccaaggagg aggtggagga cttcggcgac ctgcggcgcg acgactggct cgcgggcatc 60
aacctcgacg acctgcagat gccgggggat gccgccgatt tctacggctc catgctcgtc 120
tcgccgatgg ccgccaagat ggagccggac ggcggcttcc ccttcttctg agatccttcg 180
gcgactccgg ggaccggatg cagcgcaacg caaactgtgt atagttcaga ttttcttcat 240
ggaaccaaca acaacaaaaa aaaagtctt gctaatatct tgttctagtg gtgtagtgca 300
gaagtagcag caggcatgat tgaagttcca ttgtagtact gatgttcac gccacttgat 360
ctgtgacaag tgacggcatt ctttcgtttc ttggctgcaa attcttcggt gtccagaata 420
taatttcaga tgggtaatgc caattc 446

<210> 11001

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-C5

<400> 11001

cccacgcgtc cgccacgcg tccgcggacg cgtgggtgcg actcaattat aacttcgata 60
 ctgccctggg atgaaaggct gatagttgga ctatccaaca gggaaataaa ggtttactac 120
 aaggcatcat gactctttgc ttcaacccca tgtatacatt gtgaatagtt cagtatacag 180
 taaacgtgag atagaggatt ggaatcccca ggactagaat acatcaaaag tacaatccgt 240
 gtttttttct ttaaacaaca ggggcgttcg tgtccctcc ttttttttat attttctaca 300
 aagggatagt atacaagggg cctgtttggt tcagcttttt tctgaccagc ttttctgaaa 360
 atctggctgt ggggagaatc tggctgtggg agagaatctg ggtatcatta cgattacctg 420
 tggaggaaga taaagt 436

<210> 11002
 <211> 433
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-034-Q1-K1-C6

<400> 11002
 caatggcggc gggcgggaat ggcgccggcg gggacaccag ggcggccttc gcgcggagct 60
 acaagacgct caaggaggag ctgctcaccg acccggcctt cgagttcacc gaggagtcac 120
 gccagtggat cgaccgcatg gttgactaca atgtactcgg aggcaagtgt aaccgtgggc 180
 tctctgtggt cgacagctac aagctgctca agggcgctga tgctctgggc gaggaggaaa 240
 cgttccttgc ttgcaccctc ggctgggtgca ttgaatggct tcaggctttc tntcttgtgc 300
 ttgatgatat catggatgac tctcacactc gtgcgggcca gccttgctgg ttcagggtgc 360
 ctcaggttgg cttaattgct gcgaatgacg ggatcatcct tcgcaaccat atctcacgga 420
 tcccttcgcg cca 433

<210> 11003
 <211> 325
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-C7

<400> 11003

caattaaatg gttgcattca aaaaaaaaaa aaaaaaaaaa aaaaaaaactt aaagcgaggg 60
tacaaaaaaaa aaaaaaaaaa aacaaataaa aaacataaac aaaaaaaaaag gccgaccaat 120
cacgcggatc caatccttcc ttatcgctta gtgcatacgt cctagctctc atttgttacc 180
gcctactttc tgtgaactac aggtactttc tcatcaaggg cactgttaat cccctggagt 240
atccacacctt acttgctttc acgctaatacc ccttcattcc atctgtttta atatctaata 300
ggccccctccc ttttatcatt cctaa 325

<210> 11004
<211> 355
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-034-Q1-K1-B11

<400> 11004
cccacgcgtg cgccacgcg tacgtgattg ctgttattga gcctgatgag catgtgggga 60
gagctatgaa tgagatcaat gcagctgcta ggctgagggt ggctgccagc gagaaagctg 120
atgcagagaa gatactgcag atcaagagag ccgaaggatga tgcagaatcc aagtacttgg 180
cgggtctggg tatcgcaaga cagcgccagg ctatagtgga tgggctcaga gacagtgttc 240
ttgctttctc tgagaatgtg cctgggacct ctgcaaagga tgtcatggac atggttctgg 300
ttaccagta cttcgacacc atgaatgaca ttggggcctc gtccaagtcc tggtc 355

<210> 11005
<211> 439
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3059-033-Q1-K1-H6

<400> 11005
cccacgcgtc cgccacgcg tccgcggacg cgtgggctcg agtccaagat cagcctggat 60
cgggagacgc agagggtccc cggttcggc ttctgcacct tctccacgga ggaggcgatg 120
cggaacgcca tcgagggcat gaacggcaag gagctggacg gccgcaacat caccgtcaac 180
gaggcccagt cccgcggcgg ccgtggaggc ggcggcggcg gctacggtgg tggccgtgga 240
ggcggcggct acggcggtgg cgggcgccgt gatggcgcg gcggtacg cggtggcggc 300

ggcggctacg gtggcggcgg tggctacggt ggtggtggtg gcggctacgg cggtggcaac 360
 cgtggcggcg gctacggcaa ctncgacggg aactggaaga actgagcggg ggggcccgcg 420
 ctggcaagtt atcctgttc 439

<210> 11006
 <211> 348
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-033-Q1-K1-H7
 <400> 11006

cccacgcgtc cgcaaccctc tcgagagcca aatttgagga actatgttca ggcgttaggg 60
 acaggcttaa aactcctgtt aataatgcct taagagatgc caagttgtct gtcagtgatc 120
 tagatgaagt tattcttgtg ggtggatcca cccgaatccc tgcagttcaa gaacttgtga 180
 ggaagcttac tgacaaagat cccaatgtta cggatcaacc tgatgaggtt gtatctcttg 240
 gggcatctgt gcacggtggc gttttggcac gagacgtgaa agacgtagtt cttctggatg 300
 ttactccatt atctcttgtt tcggagacat tggcaggagt gatgacaa 348

<210> 11007
 <211> 340
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-033-Q1-K1-H9
 <400> 11007

cgttactggc cgtccctcta ctgctccaaa tctggaacat gcttcatcgg caaggggctc 60
 tgggtggactc acgagtggga gaaacatggc acctgctctg cccctgcggg tcacgatgaa 120
 ttacagtatt tcacccttgc ccttgacctc tactacaagt atgacgttac agaaatgctg 180
 tcacgtggag ggatacatgt ttcaaatggc aaagaatatg cactgaacga tgtcatcgat 240
 accatcgaac atgcttatgg gggatcacca caaattgctt gcctgacggg ctcaatcgaa 300
 gaactaatgt tactcatcga cagaaaaatg aaccctcttg 340

<210> 11008
 <211> 362

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-034-Q1-K1-A1

 <400> 11008

 gcaaattgca ccaagaaatc catcgagagg ccgtcgacag gggaattaat ggcgtcggcg 60
 tcgagcagca gccaccgccg cctcactctc gcagccgccg tcttgccttc cgtgctcgcg 120
 gctgccagcg ccagcgccgg gacctctgc gtgccgggt gggccatccc gcacaacccg 180
 ctcccagct gccgtggta cgtgaccagc cggacctgcg gcacggggc gcgcctcccg 240
 tggccggagc tgaagaggag atgctgccg gagctggcg acatcccggc gtactgccg 300
 tgcacggcg tgagcactc catggacggc gcgatccgc cgggcccgga cgcgcagctg 360
 ga 362

<210> 11009
 <211> 391
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-034-Q1-K1-A12

 <400> 11009

 acccactcgt acgcagacaa agtgaagcgc actagcagct tcccaacacc aacggctacc 60
 aagatattaa gcctcgttgc acttattgcc gtttagaga gctcatcaaa tgcgttcatt 120
 attccacagt gtcacttgc tctagtgc attattacac agttcctttt atcagttact 180
 tcaatgggct tctaacattc agccgtgtaa gccttctgac tacatctagc gctttcagag 240
 agcgccttac aacaaccaat tgcccaattg caacaacaat ccttggcaca tctaacccta 300
 caaaccattg caacgcaaca acatcaacat caacagtttc tgccattact gagccatcta 360
 cccgtggtga accatgtcac ctacttgcaa c 391

<210> 11010
 <211> 396
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-034-Q1-K1-A2

 <400> 11010

attgtcccaa caatggcacc cacaatattg gggttcctta tgcgctttgt tctgcctgca 60
 ggtcctgcta ccgcagccat tatcccacac tgctcacaag ctccatatagc tgcctttata 120
 tctccatacc tttcaccatc ggtgtctcca gtatgtgaaa acccatttct tcaaccatac 180
 aggatccaac aggcgatccc agcaggcatc ttaccttgat caccatcgtt actacaacaa 240
 ccgtaggacc tattacagga gttacctctg gagcatccgt tggcacataa catgacggca 300
 cacctactac aacaacttgt gctacgacac ctgctgcct actctgatga acagtatcag 360
 cttccattca accaactagc tgcattgaac tctgct 396

<210> 11011
 <211> 445
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-034-Q1-K1-A3

<400> 11011

tactcgggtcc ggaatggctg gaccacgcg tccgaagtgc accaagaaat ccatcgagag 60
 gtcgttgaca ggggaatcaa tggcgctcgtc gggtagcanc agccaccgcc gcctcatcct 120
 cgcagccgcc ggctgtctct ccgtgctcgc ggctgccagc gccagcgccg ggacctcctg 180
 cgtgccgggg tgggcatcc cgcacaacc gctcccgagc tgccgctggt acgtgaccag 240
 ccggacctgc ggcacggggc cgcgcctccc gtggacggag ctgaagagga gatgctgccg 300
 ggagctggcg gacatcccg cgtactgccg gtgcacggcg ctgagcatcc tcatggacgg 360
 cgcgatcccg ccgggcccgg acgcgcagct ggagggccgc ctagaggacc tgccgggctg 420
 cccgcgggag gtgcagaggg gattc 445

<210> 11012
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-A5

<400> 11012

aggaaactga agaagcagaa ctcaaatgc tgagaaagag tttgaatttc aaggcaacac 60

caatgccaaag cttttataag gaaccaaccc ctgccaaggt tgaattgaaa aagatccccc 120
 caaccagagc taaatcacca aagcttggtc ggtctaaaaa caagtccata tcagagactg 180
 aagaaaatac tactacggac caacctgccc gtctgagcct tgacgaaaag gtttctcaaa 240
 acggtgtgaa aaaaccaacc cgtcgagtt cagcaaagaa gccccagaga aagtcactcc 300
 ccaggctgcc atctgaagaa acttgctcgc ttgatgccac ctcaaggcag ctgaagaaca 360
 acaaactgga tgaagttaat gctcaggaga caggatcagc tacagggcag gtacaagga 419

<210> 11013
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-A7

<400> 11013
 cggacgcgtg ggcggacgcg tgggccggca cgtccactcg caaggcattc tttgctggtc 60
 ttcaaagctg ggtgtcaaga aaatttatga ctggatgtgt agttcttttg ccaattgctg 120
 tcacattctt catcacttgg tggtttatcc aatttggtga tggttttttt cagcccactc 180
 tatgcaaaac tggggtttga catattcggc cttgggttct tgacctcctt ggtgtttata 240
 cttcttggtg gaatctttgt gtcttcttgg gtgggttcaa cggctctctg ggttgagaa 300
 tggtttataa agaaaatgcc ctttgtaagg cacatatact ctgcatcaaa gcaagttagc 360
 actgctgttt caccagatca aaatacaaca gcattcaaag aagtagcaat cattagtcac 420
 ccccggttg gtgaat 436

<210> 11014
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-A8

<400> 11014
 accaactagc aacatagaaa gcacaatagt gtaccaacaa tggcagccaa aatattttgc 60
 ttccttatgc tccttggtct ttctgcaagt gctgctaccg caaccatttt ccacaaatgc 120
 tcacaagctc ctatagcttc ctttcttccc ccatacctct caccagcggg gtcttcagta 180

tgtgaaaacc caattcttca accctacagg atccaacagg caatcgagc aggcatttta 240
cctttatcac ccttggttct ccaacaaccg tcagccctat tacagcagtt acctttggtg 300
catttggttg cacaaaacat caaggcaca caactacaac aacttggtgct aggaaacctt 360
gctgcctact ctgagcaaca gcagtttctt ccattcaacc aactggctgc attgaactct 420
gctgcttatt tgcaacaaca acta 444

<210> 11015
<211> 406
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-034-Q1-K1-A9

<400> 11015
cgacgattat ggggccatca gatagcccat acgctggtgg cgtatttttg gtcactggtc 60
actttccacc ggactaccca ttcaaaccac cgaagggtgc attcaagacg aaggtttacc 120
accggaatat caacagcaac gggagcatct gtcttgatat cttgaaggag caatggagcc 180
ctgcactgac agtttctaag gtctctctct caatttggtc ccttctgacg gacccaaacc 240
ctgacgatcc gttggtccca gagattgctc acttgtaaa gactgatcgc gtgaagtacg 300
aatctactgc taggagctgg actcagaaat atgcaatggg ctgacaagct attggtctct 360
catagacctt tctgtaactg anaccagatg tctaaattaa atttgt 406

<210> 11016
<211> 415
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-034-Q1-K1-B1

<400> 11016
gccttgetca tactgcttgc cctcgccgta tcgtccaccc gcaacgcaca ggaggatgcc 60
atggccgaca acaccgggac gttggcgggc ggcattcaagg acgtgccggg gaacgagaac 120
gaccttcacc tccaggagct cgcccgttc gccgtcgatg agcacaacaa gaaggccaat 180
gctcttctgg ggttcgagaa gcttgtaag gccaaagacac aagtgggtgc tggcacgatg 240

tactatctca ctattgaagt gaaggatggc gaagtcaaga agctctacga agctaaggtc 300
 tgggagaagc catgggagaa cttcaaggag ctgcaggaat tcaagcctgt tgaagagtgt 360
 gctagcgcct aaggatctct ccttcaccat gtgcgagcct gaagctcana gcaaa 415

<210> 11017
 <211> 440
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-033-Q1-K1-H4
 <400> 11017

cgtccggaga atcgaagaag caatcagaca tggctgtaat gatcttaaga tacttcaatg 60

tgagtgggtc ggaccagag gggcgactag gagaagctcc aaggccagag ctacgcgagc 120

atggacggat atccggtgct tgctttgatg cggctttggg aatcattcca gggctaaagg 180

ttcgtggaac tgattactcc actgcagatg gaacttgat tagggactac atcgatgtca 240

cagaccttgt agatgcccac gtcaaagctc ttggtaaagc tcagccaggc aaagttggaa 300

tctacaacgt cggaacaggc caaggtagat cggtgaccga gttttagaa gcttgcaaga 360

aggcaacggg agctttcatt caagtcgaat atnctgccc tagacctgga gattacgccg 420

aggtatacag cgaccgctcg 440

<210> 11018
 <211> 442
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-033-Q1-K1-F9
 <400> 11018

accagaacgg ccaccagatc taccaccacc acgctggccg ttctggtggg agatttggtg 60

accgttctgg tggccggcgt ggtggtggta gatttggtga aagatctggg ggcagggatg 120

gtggcggcag attcgggtggc cgacgtggtg gtagggatgg cggccgagga cgtggtggcc 180

gtggctttgg taacaagcac agcgtggca ctcccagtgc aggaagaag actacttttg 240

gtgatgattg atgatgaacg cggaggatgc tgcaaaagga tccaatgaaa ttgtgttttt 300

ttggtcttgt tgtggtaccg taactggaat ttggtatttt ttgtctacta ttactgtag 360

tggtttctgg attttccttg tgttgccat gctgcaatac accgttttgt tgttgcgata 420
catctgtagt ttggctttgg tt 442

<210> 11019
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-G1

<400> 11019

catataaagt ggaatccatt agctacaaca gagcaacaat ggctaccagg atagtttccc 60
tccttatgct ccttgctctt tctgcatgtg ttgctaacgc gacaattttc cctcaatgct 120
cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaatgata gcttcagtat 180
gtgaaaaccc agctcttcag ccctataggc tccaacaagc aatcgagca agcaacatac 240
ctttatcacc cttgttgttt caacaatcgc cagccctatc tttggtgcag tcattggtac 300
aaaccatcat ggcacagcat ctgcagcaac tcgtgctacc tgtgatcaac caagtagctc 360
tggcaaacct ttctccctac tctcagcaac aacaatttct tccattcaac caactgtcta 420
cactgaaccc tgcttct 437

<210> 11020
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-G10

<400> 11020

gatcagcaaa gcggcagtgc gtagagagga tcgtcgaaca gaacagcatg aagatgggca 60
tcgtttctgt cgtgtgcttg gctctgtcag ctgccagcgc ctctgcaatg cagatgcctt 120
gccccgcgc ggggctgcag ggcttgtagc gcgctggcgc cggcctgacg acgatgatgg 180
gcgcggggcg gctgtacccc tacgcggagt acctgaggca gccgcagtgc agcccgttg 240
ctgctgcgcc ctactacgcc ggggtgtgggc agccgagcgc catgttccag ccgctccggc 300
aacagtgttg ccagcagcag atgaggatga tggacgtgca gtccgtcgcg cagcagctgc 360
agatgatgat gcagcttgag cgtgccgc 388

<210> 11021
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-033-Q1-K1-G4

<400> 11021

 gcggcagtgc gtagagagga tcgtcgaaca gaacagcatg aagatgggtca tcgttcgcgt 60
 cgtgtgcctg gctctgtcag ctgccagcgc ctctgcaatg cagatgccct gccctgcgc 120
 ggggctgcag ggcttgtagc gcgctggcgc cggcctgacg acgatgatgg gcgccggcgg 180
 gctgtacccc tacgcggagt acctgaggca gccgcagtgc agcccgtgg cgccggcgcc 240

 ctactacgcc ggggtgtgggc agacgagcgc catgtaccag ccgctccggc aacagtgcgt 300
 ccagcagcag atgaggatga tggacgtgca gtccgtcgcg cagcagctgc agatgatgat 360
 gcagcttgag cgtgccgctg ncgncagcag cagcctgtac gagccagctc tgatgcagca 420
 g 421

<210> 11022
 <211> 251
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-033-Q1-K1-G5

<400> 11022

 aaaaaaaaaa aaaaaaaaaa aataaaataa aaaaacaaat aaaaaaaaaa aaaaggaaga 60
 aaaatacaac atctttcaaa attccaaaaa ataaaaaaac aacaaaaaaa ggtcttccat 120
 tttatatgat ccaaccttca ttactcttac atccacttta ttacctacct tatactttca 180
 ccaaactcaa attcatttcc ccttatttaa caatttcctc attgacaaaa cccttgattt 240
 ccccaactaa a 251

<210> 11023
 <211> 372
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-G6

<400> 11023

cccacgcgtc cgccacgcg tccgctcgta gagagaagga aaaatatccc cagaccctag 60
ctccccgatct cgatggcgaa cctcgcgctc ttcttcgaca tgaccgtcgg cggcgccccg 120
gcgggccgga tcgtgatgga gctgtacgcc aacgaggtgc ccaagaccgc ggagaacttc 180
cgcgcgctgt gcacgggcga gaagggcgtg ggcaagtccg ggaagccgct ccactacaag 240
ggctccacct tccaccgct catccccgag ttcattgtgcc agggcggcga cttcaccgcg 300
ggcaacggca ccggcggcga gtccatctac ggcgagaagt tccccgacga gaagttcgtg 360
cgcaagcaca cc 372

<210> 11024

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-033-Q1-K1-G7

<400> 11024

gtggaattca gatgtgtttc cctcagtttg gatactctgg gacattggag cgagatggat 60
ttgcaagaaa caggatatgg tccctggatg atgagcagcc accactgaat cataatgata 120
acggaagcaa agtttctgtt gaccttattc taaagccatc tgaagatgac ctcaagtgtc 180
ggccacattg gtttgagttc cgtctgaggg cctatctttc aaaagatggg gacttgtcat 240
tgatatcacg catcangaat gtcaatggca agccattcag tttctcattt gcttatcaca 300
catatctttc tgattctgac atcagtgcg tcaggattga aggtctggag acattgatc 360
atcttgacaa ccttagccac aaagaacggt ttacggaaca aggagatgcc ataacatttg 420
agtcataaggc cgaccgagtc ta 442

<210> 11025

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-G9

<400> 11025

ctcaaacct cagtggtgaa agtagatcaa gggatacaag catcaaaatt gagcagagtg 60
aacaagaaca tagaatactc aagaatgaag atggatatgt gaaatctgaa cgcccatata 120
aatcccgaaa gagggggcga cacattgaga aatgacattt cattgaggcc gtgaagatac 180
aagaatgtgg aagtcatgtt cgcttcaatg gttctgctgc ctatttatgt ttcttgtggg 240
ggggagaagg tgcctccagt tggagatccc ggtagcttca tagaaatgta cgatgatttt 300
tgtaaaacga atggaagggt gcatttgcaa attatcacct tttttgacaa gatagtagta 360
actgatctca ccgtaagggt ttattggcaa atggcaagtc ccatgtttca atta 414

<210> 11026
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-H1

<400> 11026

cctgagtctt gtcgctgccg ccgggatggc cggagtcacc gccaccggga tggccgggggt 60
tgccgccacc ttctcctcag ccaccgctca gatcgggggc ttctctctga agaagcctta 120
cgcgccgccg ttgtggggcca cgcacctctt ccccatgcct tgccatacct tctcgctcgg 180
ccatttccca acaccgattc acaagtggaa tctgccaat ttgccggaag gaacggaagt 240
gtggatcaag cgagacgatt tatcaggcat gcagttgagt ggaaacaagg tccggaagct 300
ggagttcttg atggcagatg ccgtagcaca aggcgcagac tgcgttatta ctggtggggg 360
tatacagagt aaccactgtc gtgccacaga cgtggctgct aagtatctca atcctgaatg 420
ctacctgata ctacgt 436

<210> 11027
<211> 401
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-033-Q1-K1-H10

<400> 11027

cagctcttca accctatagg ctccaacaag caatcgcagc aagcaacata cctttaggac 60

ccgggtttca acaatcgcca gccctatctt tgggtgcagtc attggtacaa accatcaggg 120
cacagcagct gcagcaactc gtgctacctg tgatcaacca agtagctctg gcaaaccctt 180
ctccctactc tcagcaacaa caatttcttc cattcaacca actgtctaca ttgaaccgtg 240
ctgcttattt gcagcaacaa ctattaccat tcagccagct agctactgcc tactctcagc 300
aacaacaact tcttccattt aaccaattgg ccgcactgaa ccccgctgct tatttgcagc 360
agcaaatact actaccatnt aaccagctag ctgcagcaag c 401

<210> 11028
<211> 372
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-033-Q1-K1-H2

<400> 11028
gcgaatacta ctaccattta gccagctagc tacagcaagc cgtgcttctt tcttgacgca 60
acgacagttg ctgccgttct accagcagtt tgccggctaac cccgcaaccc tcttacaact 120
acaacaattg ttgccctttg tccaacttgc tttgacaaac ccagcagcct cctaccaaca 180
acacatcatt ggtggtgccc tcttttagat tgcttattag atgtaattca ataataaagt 240
tttttggtg atgtatgtgg ccaaccagaa ataaaaagtt acatttccaa aaaaaaaaaa 300
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360
aaaaaagggc gg 372

<210> 11029
<211> 435
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3059-033-Q1-K1-F7

<400> 11029
gcaacataga aagtggaatc cagtagcaac aacagagcaa caatggcgac caagatagtg 60
ttccctcctt atgtctcttg ctctttctgc atgtgttgct aacgcgacaa tttccctca 120
atgtcacaa gctcctatag ctcccttct tccccatac cttccatcaa tgatagcttc 180
agtatgtgaa aaccagctc ttcagcccta taggctccaa caagcaatcg cagcaagcaa 240

cataccttta tcacccttgt tgtttcaaca atcgccagcc ctatctttgg tgcagtcatt 300
 ggtacaaaacc atcagggcac agcagctgca gcaactcgtg ctacctgtga tcaaccaagt 360
 agctctggca aacctttctc cctactctca gcaacaacaa tntcttccat tcaaccaact 420
 gtctacactg aaccc 435

<210> 11030
 <211> 199
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-033-Q1-K1-E11
 <400> 11030

ctgctatact atactetagg aageaaggac accaccgcca tggcagccaa gatgcttgca 60
 ttgttcgctc tcctagctct ttgtgcaagc gccactagtg cgacccatat tccagggcac 120
 ttgccaccag tcatgccatt ggggtaccatg aacccatgca tgcagtactg catgatgcaa 180
 caggggcttg ccagcttga 199

<210> 11031
 <211> 405
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-033-Q1-K1-E12
 <400> 11031

cggacgcgtg ggcggacgcg tgggaatctt tgcgcgctnc cctgctaccg ggccgcgctt 60
 ggcactcccc atccccgget ttcttcttgc aacagaacct agcattttca cacgttggca 120
 ttgacacgta cccagtgcc acgcccagag tgcaccgagc aagcttggca gaagccgttc 180
 gagcaccggc ggcgcccgcg ttccacagtg catcttcggc tgtggcgaac cggaccatgg 240
 gcgcgggaccg cgtgggtcaa ggtctctagt cagggtgact cgatagataa agattctttc 300
 tcttctgact cgagaccaag atcaggttga ttcgagagac aaagattttt ttctcctctg 360
 acgagacaaa gattctttct cctcgtccag atagtgatgt ctgga 405

<210> 11032

<211> 397
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-033-Q1-K1-E5

 <400> 11032

 cacattaaca acaacttaac ttcaatgcct accaacaatct tatcgcggtc tggctcttct 60
 tgcacttttt gcgagcgcta caaatacatt cattattaca caatgctcac tcgctccaag 120
 ttccatcatt acacacatcc taccaccagt tacttcaatg ggcttccaac acccaactgt 180
 gcaagcctat aggctacaac aagccatttc cgccagcgtc ttacaacaac caattttcca 240
 tttgcaacaa caatccttgg cacatctaac aatacaaacc atcgcaacgc aacaacaaca 300
 acaattccta ccatcactta accacctaac cattgtaaac cctgccgtct acttgcaaca 360

 gcaattgctt gcatcacacc cactttctct tgcaaac 397

<210> 11033
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-033-Q1-K1-E8

 <400> 11033

 cggcgctggc gcggtccccg cgaggagttca gctacaagga gctgagcgcc gccgacgcgg 60
 ggcttcgacg cgtcccgcgt catcggaac ggcgcggtcg gcaccgtgta caagggcatc 120
 gtgccggaca cgggcgccat ggtggccgtg aagcgctgca gcagcaccgg cgcgcgcggc 180
 ggaggcaacg cgagcggcga gcaggcgcg tggagttcc tgtcggagct gtccatcatc 240
 gcggggctcc ggcaccgcaa cctgctccgg ctgcaggggt ggtgctacga gaagggggag 300
 atcctgctgg tgtaagacta catgcgcaac ggcagcctgg accgggcgct gttcgacgcg 360
 tcggcgcccc tgctgccgtg gcgccaccgg cgcgaggccc tggcnncgcg ttgcgtcgcg 420
 cttgcgtac 429

<210> 11034
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-E9

<400> 11034

cccacgcgtc cgccccacgcg tccgcccacg cgcccgccca cgcgtccgcc cacgcgtgcg 60
ggagagttct ggtgctatct gcacatatat cctctctata cacttgtaaa acactgacaa 120
ttctgtatct gtatgaagta tatcataact taaaacggtt gttattcccc agctacacta 180
cttgtctggt gtatattttt tttttttctc gaaagcgag gagaactgag cgatattata 240
ttaagcatat aggggtttct ttttgggagc ttctgagttt gagccttttc atagaatatg 300
gaaatcttgg gctcctccaa aaaccaagtt ttttatgtgg ttggtcgac acaggaaggt 360
ttggacggca gatagactgc agaaaagggg tatggacat ccaaagagat gtccactatg 420

tg

422

<210> 11035

<211> 452

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-033-Q1-K1-F1

<400> 11035

cccacgcgtc cggcgggtac gcagagtcgc tagacgcacc tcgctcgcaa cttgttggac 60
tcgaaggggc aatagacagc aggcagggcc ccgaactgag ggaggagatt cccaaggatc 120
tcgctcgccg ggtagaggaa gggacgggga cgggcgatgg cggcggacgg cggcggcggg 180
gtggactggg agagcctggc ggaggccacc tccggggcaa tcggctcgct cgtcagcacc 240
accgtgctct acccgctega cacctgcaag accaagttcc aggccgagct ccagacgcac 300
cagggcgctc agaagtatag gaacctttca gatgtctttt gggaagcgat tcgtaaaaag 360
caatttttgt ccctatatca gggcctgaac acgaagaaca ttcagtcttt tgtctnctcg 420
gtttttaatt ttatgggtat agctatttta aa 452

<210> 11036

<211> 233

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-F11

<400> 11036

aacctatagc ctactatcaa caacagctcc ttgcatgcaa atcactcacc atgacaaact 60
ttcctatatc ccaacatcaa caacagttat aacaaattct accacagatc actcactttg 120
tcatccacaa ccctattgac tacctacaac agcatcaaca ccttctatct acccaactcg 180
atatcaacaa tatacctaca aacatacaac aactgttctt acaacaacac ctt 233

<210> 11037

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-F12

<400> 11037

aattggtgca ctattaggta cctgttggag gatgttacag gcttattgat atccctgtga 60
gtgactgctt caacagtggg ataaataaga tatttgtgat gagtcagttc aattctactt 120
cgcttaaccg ccatattcat cgtacatacc ttgaaggcgg gatcaacttt gctgatggat 180
ctgtacaggt attagcggct acacaaatgc ctgaagagcc agctggatgg ttccagggtg 240
cagcagactc tatcagaaaa tttatctggg tactcgagga ttattacagt cacaaatcca 300
ttgacaacat tgtaatcttg agtggcgatc agctttatcg gatgaattac atggaacttg 360
tgcagaaaca tgtcgaggac gatgctgata tcactatatc at 402

<210> 11038

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-F2

<400> 11038

cggacgcgtg ggcggatatg gatatggaca ccatcaccat cagcatgacc accacaggat 60
ggcaccgatt cgagcagggc gacgtggtgg ccatgccggc cggcgcccag cactggctgt 120
acaacgacgg cgacgcgccg cttgtggcgg tctacgtctt cgacgagAAC aacaacatca 180
accagctcga gccttccatg aggaaattct tgctggctgg gggcttcagc aaggggcagc 240

cccacttcgc cgagaacatc ttcaaagga tcgacgccg gttcctgagc gaagccctgg 300
 gcgtcagcat gcacgtcgcc gagaagctgc agagccggcg tgaccagcga ggcgagatca 360
 gccgcgtgga gccggagcac gggtttcacc agctgaatgc gtcggcgctc tcg 413

<210> 11039
 <211> 394
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-F3

<400> 11039

ccgacgcgtc cgcggacgcg tggggccctc agtcctccag ccacttgagc ctcctaagac 60
 agtcgcattt caccggttca tcttctcgga gcttctcaac aagatgggtc gtcaccgcaa 120

tectttggtg gtggagtcca tcagtgaact cgacgaaatc taggaggaat cgctgttcc 180
 ttctcctgcg tctcatcgat ctctctccaa gagaggacta ggctctggcc gtttggaagg 240
 ggagggaccc tcgatgccct cgcaaccgcg gcgccagggg cgtcaaaagg ttggcgccac 300
 tcgttctcgc caaagcacct tctccgcttg atacccttca tgccaggagg aggatggagc 360
 gttcgacgac taggtctaac ttccatcttt cgac 394

<210> 11040
 <211> 313
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-F4

<400> 11040

gagaccatga gctccacgga gtgcggtggc tgcggcggt gcgcctagac gtcgttgctt 60
 ggggtggtcg ggctgagcgt ggaggacgcc aagaaggtga tcctcaagga caagccggac 120
 gccgacatcg tgggtgctgcc cgtcggctcc gtggtgaccg cggattatcg ccctaaccgt 180
 gtccgcatct tcgtcgacat cgtcgcccag acgccccaca tcggctgata atatataagc 240
 tagccgctat ttcctttcct tgccccagaa cttgaaataa atatataac gatgaaataa 300
 cgcgggcatg ccg 313

<210> 11041

<211> 385
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-033-Q1-K1-F5

 <400> 11041

 atgatgactg ccaaaatcgg agagagggat agtaaagagg agctttcaaa agcgattgcg 60
 cattattgat caagatggaa atggaaagat ttctaacatt gatatccaga ggattgccaa 120
 agagctgggt gtaaattctca ccctcgatga gatccaagac atgggtgcaag aggctgatag 180
 aaatgggtgac ggtgaaatag actttgacga gttcatcagg atgatgagga ggaccagctt 240
 tggctactag gtgcatttat ctgcgagtgc ttgacgcttc cagtttgttt atgactaccg 300
 tgcgtgtggt aatcaactgg tgtggttact atgaacaatg tgctctgggt tcgcttttat 360

 atataatttt aatttaattt taatt 385

<210> 11042
 <211> 384
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-033-Q1-K1-E1

 <400> 11042

 caccaagcga agcacattag caacaacct acaacaatgg ctaccaagat attatccgtc 60
 cttgcgcttc ttgcgctttt tgcgagcgca acaaatgcgt tcattattcc acaatgctca 120
 cttgctccaa gttccattat tacacagttc ctcccaccag ttacttcaat gggcttcgaa 180
 caccagctg tgcaagccta taggctacaa caagcaattg cggcgagcgt cttacaacaa 240
 ccaatttccc agttgcaaca acaatccttg gcacatctaa caatacaaac catcgcaacg 300
 caacagcaac aacaattcct accagcactg agccacctag ccatggtgaa ccctgccgcc 360
 tacttgcaac agcagttgct tgca 384

<210> 11043
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-033-Q1-K1-C8

<400> 11043

ggctcttcct cggcggttgcc aattcagaca gccttctgta tgacgaagaa tggaccagct 60

atcttaagca gtatccagac aatttcaggt acgacaaagc cctcagcagg gagcagaaga 120

acaggagcgg cggcaagatg tacgtccagg acaagatcga ggagtacagc gacgagatct 180

tcaagctcct ggacggcggc gcgcacatct acttctgcgg cttgaagggg atgatgcctg 240

gaatccagga cacccttaag aaggtggcgg agcggagagg cgagagctgg gaccagaagc 300

tggcccagct caagaagaac aagcaatggc acgtcgaggt ctactagggc tcggattgct 360

gtggttgcca cccttgatgc tgccgngca gcgtcaggag acaaacacat gattgaaatg 420

aatcgatgga tg 432

<210> 11044

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-C9

<400> 11044

cccacgcgtc cgtcttccca caggtctggt cacaaattgc agctcagcgt gcagccgac 60

ctgaccttga taaactatat attacaaaag tgagtagctc tataggctct gcttatgaga 120

tttttatgga tattttttat tacactcgta atgggtgttt ccatttggct tttttgtcaa 180

agttcatgaa gaaattgttt cttatgccta gcaaacgctt caaatgcaag gaaatggtta 240

gttgagggtc ataccgatgg tgctctttta agttatgcag ttgctgctc aagctttctg 300

cctccctttg ccagagctag taagattgga aaagctttca attaattaac ataaatgaga 360

gtgactggac aaccatatga tctctacttt agagtaggga ctacaactac aacgaaaaga 420

a 421

<210> 11045

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-D10

<400> 11045

atcaatataa ccgattcctc aagagacagt tgcaaataaa ggatgatgca gtcgtaggat 60
tcaaagggtga acttgctgtt ttggaactag aactgcaggc tctggttggc ctagctgaag 120
aggttgctaa ttttgatgtt ccgttagggg ctaggaagat aaacggaaaa tatattcaat 180
ctcatcttct ctccagatta gaagctgtcc atgataagat tatggaacag gtaaagagt 240
ttgacgcttt aaagacccaa gaaattcctg tctactggat tggcatggct gagaatgtgc 300
agatcatggg ttcattcgat ggatggtcac agggcgaggc gatgtccatg gagtattcag 360
gtgactacgg aagattctct gcgactctga agc 393

<210> 11046

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-D12

<400> 11046

cggacgcgtg ggcccgtgcc agctgcaggg aacctgcggc gttggcagca ccccgagcct 60
gggccagtgc gtcgagttcc tgaggcatca gtgcagcccg acggcgacgc cctactgctc 120
gcctcagtgc cagtcgttgc ggcagcagtg ttgccagcag ctcaggcagg tggagccgca 180
gcaccggtac caggcgatct tcggcttggc ccttcagtcc attctgcagc agcagccgca 240
aagcggccaa gtcgcggggc tgttggccgc gcaaatagcg cagcaactga cggcgatgtg 300
cgggctgcag cagccgactt catgccccta cgc 333

<210> 11047

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-D2

<400> 11047

gcgacgcgtc cggccagtgc ttgcggcagc agtggtgcca gcagctcacg caggtgtgac 60
cgcatcaccg gtaccaggcg atcttcggct tggctctaca gtccattctg cagcagcagc 120
cgcaaagcgg ccaggtcgcg gagctggttg cagcgcagat agcgcaacaa ctgacagcga 180
tgtgcccgtc gcatcaaccg actccatgcc cctacgtgc tgccggcggg gtccccact 240

gaagaaaacta tgtgctgtat tatagccgct ggctagctag ctagtagaag catttaccgg 300
 agatgattga gttataatgt gtcacgcatt agcatgggtg gcagtgtcag tgtagcaat 360
 gaccttgatg aaac 374

<210> 11048
 <211> 413
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-033-Q1-K1-D4
 <400> 11048

aagtgatctg gactcagagc gctggccaaa ctgcactgg cgttctgtga aggttggggg 60
 ggatgagtct acagctggtg ataaacagcc aagagtttca ctctgggaga ttgagccact 120
 gacaaccttt ccgatgtacc caactgcttt tccattaagg ctaaagcgtc cgtgggcttc 180
 aggactacct atgttcaatg gtgggaggag cgacgagttc gctcgttatt cttctctcat 240
 gtggcttcga gatggaaacc gaggggctca gtcactgaac ttccagggac ttggagcatc 300
 accatggctt cagccaagaa tagattatcc attgttgagt ctgaagccag atacttacca 360
 gcagatggct gccgccgcac tagaagaaat tagagctggg gatcatttga agc 413

<210> 11049
 <211> 426
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-033-Q1-K1-D5
 <400> 11049

cccacgcgtc cggctggccg ttgcgggcga accgaaaatc acgggcgcgga gagatcggag 60
 cacggcatgt cggaggagca gttcctcgcc gtggcggtgg aagccgcca gagcgccggc 120
 gagattattc gcaagggatt ctaccagacc aagaacgtcg agcacaagg ccaggtggat 180
 ttggtgacgg agacggacaa ggctcgag gacctcatct tcaaccacct ccggaagcac 240
 ttcccgacc acaagttcat cggggaggag gagtccgagg cgctcggggc caccgatgac 300
 ctcaccgacg accccacctg gatcgtcgat cccctcgacg ggaccactaa tttcgtccat 360
 gggttcccat ttgtatgtgt ctccgttggc ctcaccattg ggaaaattcc cactgtcgga 420

gtcgtc

426

<210> 11050
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-D6

<400> 11050

tcatgtcact ctttatcttc atttttgcta ctagcattct agaaatgatg tgcggtgggc 60
ttggaattga tgactgctgg aggaatgagc acttctgggt cattggaggt ctgtcctcac 120
acctctttgc tgtgatccac ggacttctca aggtcatagc tgggtgtgat acaagcttca 180
~~ccgtgacatc caacggtggc gatgatgaet gagttctcac agctatatac attcaaattg~~ 240
actaccttat tgatacctac taccaccttg cttctattga acttcattg 289

<210> 11051
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-D7

<400> 11051

cgctcctccc ccaaaatccc ccaaaacctg acgcgctgga gggccgatcc ggggctcgcc 60
gccgccttat ccgagcagtc tctcggccc agccggggat ccaagcggga tgggggtactt 120
gagctccgtg atcgggcacc ccaccgatgg atcctccgtc agcggcggcg gcctcagcca 180
gaatggtaga tttagctatg gctatgcaag ctcccctggt aaaagggcat ccatggaaga 240
cttctatgag acaaaaattg attgtgttga tggtcagata gttggtcttt ttggagattt 300
tgatgggcat ggcggtgcta aggtagcaga gtatgttaaa gaaaacctgg tcaacaatct 360
tgatagtcac ccaaagttca tcagtgatac taaagtcgct atagatgatg ct 412

<210> 11052
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-D8

<400> 11052

cactagccta cacacaccga gcgccgtcta aactgacagc aggtcagcag ccgagcggag 60

ccaagacatc cgccgatctc agatggccgg gagaaggggtg cgccggcaaga gtgccgtggc 120

cgtggcgggc gtcgcgctgc tggcgctgct cttcgcggcg agcgaggccg actggacgtg 180

caacgtcgac cggggcacgg tgctgaggca gtgcgcgtcc tgctcgagcg gcgcgccgag 240

ccaggggtgc tgcgacgcgc tgaggaacgc cgacttcggc tgcctctgca gcaactactg 300

gaacaagctc aagaacacgc catacgccag ctgcgccaaag gccatccctt tcgctgcaa 360

cctgccaaac gccaaagtgc agtagatgga gacatggagt gcgtgaccg gacagctaac 420

gggcagc 427

<210> 11053

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-D9

<400> 11053

aatattttga gcattcagaa acacactaag cgaagcgcac tagcaacgac ctaacaggaa 60

tggtaccaa gatattagcc ctcttgccg tctttgccct ttttgtgagc gcaacaaatg 120

cgttcattat tccacaatgc tcaattgctc ctagtgccat tattccacag ttcctccac 180

cagttacttc aatgggcttc gaacacctag ctgtgcaagc caacatgcaa caacaagcgc 240

ttgcggcgag cgtcttacia caaccaattg cccaattgca acaacaatcc ttgccacatc 300

taacaatata agccatcaca acgcaacagc aacaacagtt tctaccagca ctgagccacc 360

tagccatggt gaaccctgcc gtctacttgc aagagcagct gcttgc 406

<210> 11054

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-B12

<400> 11054

acgcaagcca ctccgaggcc aagtctaggg tttgggaatc tgtaggaggg gagaggggag 60

cgcgctcagg gtcagggagg cgaagatgat cgaggtggtg ctgaacgacc gcctggggaa 120
gaaggtgcgg gtgaagtgca acgaggacga caccatcggc gacctcaaga agctggtggc 180
ggcgagacg gggacgcgcc ccgagaagat ccgcatccag aagtgtgaca acatctacaa 240
ggaccacatc acgtcaagg actacgagat ccacgacggg atggggctcg agctctacta 300
caactaggcg ccctgacccc aaccgtgccc tgatgtaagg ttaatccgaa ttctgaagtc 360
atgggtgcgc ttccagtcgc agcgtcttta gctaacaagc tcgcatacat ataggcaact 420
tgagtg 426

<210> 11055
<211> 392
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-033-Q1-K1-B2

<400> 11055

ctgacagctg ccaaagctac ttgtgtggga tagaaatgag gagtatgagc tcgtggaggg 60
ttcagagaga ttagaagaag gtactgacca agcatctcaa ataagccaat ttcttgaggg 120
atacagagca ggaagaacaa caaagaagaa aattagcggc ccttctttca tgggtttcct 180
gaattctctg gtcagcttga cctcgtgtga catccttata ttcgtcattg cccttctgtt 240
tgtcatggtg tactttgctg ggcaagatga tactccacag ccaagacgaa ttcattgaaga 300
gtgatggaag cttggggagc ttcttgaccc tgaagtgtaa agatggctaa tgtaccanga 360
gatgtagctc agaggttata gatttcaaac tt 392

<210> 11056
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-B3

<400> 11056

agtgagacca actagcacat agaaagcaca atagtgtacc aacaatggta gccaaatatt 60
gtgcctcctt atgctccttg gtctttctgc aagtgtgct acgacgacca ttttcccgca 120

atgctcacia gctcctatag cttctcttct tccccatac ctctcaccag cgttgtcttc 180
 agtatgtgaa aacccaattc ttcaacccta caggatccaa caggcaatca cagcaggcat 240
 cttaccttta tcacccttgt tctccaaca atcatcagcc ctattacatc aattaccttt 300
 ggtgcattta ttggcacaaa acatcagggc acaacaacta caacaactcg tgctagcaaa 360
 acctgctgcc tacgctcatc aacaagcagt acctttggtg catttggttg cacaaaacat 420
 tatggcacia caac 434

<210> 11057
 <211> 379
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-033-Q1-K1-B4

<400> 11057
 ccgcacgcgt ccgccagagc gcagaagaac ccgatcgaca ccatgaggggt gttgctcggt 60
 gggctcgtct tcttggctct cgctggagagc gccacctcca cgcatacaag cggcgggtgc 120
 ggctgccagc caccgtcgcc ggttcatteta ccgccgccgg tgcattctgcc acctccggtt 180
 cacctgccac ctccggtgca tcttccaccg ccgggtccacc tgccgccgcc ggtccacctg 240
 ccaccgacgg tccatgtgcc gccgccggtt catctgccga cgccaccatg cactaccct 300
 actcaaccgt cccggcctca gtctcatecn cagccacacc catgcccgtg ccaacagccg 360
 gattccagcc cgtgccagc 379

<210> 11058
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-B5

<400> 11058
 cccacgcgta cgcacacgcg ttgcgccacg cgtccgcaac tagcaacata gagagcagaa 60
 tagtgtacca acaatggcag ccaaaatatt ttgcctcctt atgctccttg gtctttctgc 120
 aagtgtgct actgcgacca ttttcccgca atgctcgcaa gctcctatag cttcccttct 180
 tccccgtac ctctcaccag cgggtgtcttc ggtatgtgaa aacccaattc ttcaacccta 240

caggatccaa caggcaatcg cagctggcat cttaccttta tcacccttgt tectccaaca 300
atcatcagcc ctattacaac agttaccttt ggtgcattta ttggcacaaa acatcatggc 360
acaacaacta caacaacttg tgctagcaaa ccttgctgcc tactc 405

<210> 11059
<211> 299
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-033-Q1-K1-B6
<400> 11059

cccacgcgtc cgtcaacggg ctttgggcat ttcgcaattg ctaatgatga tgtgtacgag 60
ttagctgaga atatcaaata caagggtcgt aagatcaccc gcgaacctgg tcctgtcacg 120
ggacgatcca ctgttcttgc cttagcacia gatcctcatg tctacatgtt tgagcttatt 180
ctgaggtctg actcacctga gtctctttgc caatatacgc tattggctctt ttacctttat 240
cgtgtactaa gctgtacgag atgggtctac acatgcaact cctattgatg aaggatgat 299

<210> 11060
<211> 407
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-033-Q1-K1-B7
<400> 11060

cggacgcgtg ggcggacgcy tgggtagcaa catagaaagc acaatagtgt acgaacgagt 60
ggcagccaaa atattttgct tccttatget ccttggctctt tctgcaagtg ttgctaccgc 120
aaccattttc ccacaatgct cacaagctcc tatagcttcc cttcttcccc catacctctc 180
accagcggty tcttcaatgt gtgaaaaccc aattgttcaa ccttacagga tccaacaggc 240
aatcgcaaca ggcattctac cattatcacc cttgttcttc caacaaccgt cagccctatt 300
acagcagtta cctttggctc atttgggtggc acaaaacatc agggcacaac aactacaaca 360
acttgtgcta gcaaacttg ctgcatactc tcagcaacat cagtttc 407

<210> 11061
<211> 364

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-033-Q1-K1-B9
 <400> 11061
 aagaaaaaaa acaaataaca acataaaaag cacaataata taccaacaat gacaaacagg 60
 atcggtcgct ttcttagacc caaaaggtct gtatgcaagc attagtaaag ctaacatttt 120
 tatacagtgc tcacaatcta atatatcttc cgttgtttta ccataactca aatcagagga 180
 ctcttcaatg taccaaatta caattgctta accctactcg atccaacatg caatcgcaac 240
 aagcctatta ccattatcac gcttggttct ccaaaaaccg tgaccctat tacagcaaat 300
 acctatggtc ccatttatgg cacaaaaaat ccggccacaa catctacaac aacttgtgct 360
 acca 364

<210> 11062
 <211> 423
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-033-Q1-K1-C1
 <400> 11062
 ccgacgcgtc cgattaagac caactagcaa catagaaagc acaatagtgt accaacagtg 60
 gcagccaaaa tattttgctt ccttatgctc cttggtcttt ctgcaagtgc tgctaccgca 120
 accattttcc cacaatgctc acaagctcct atagcttctt ttcttcccc atacctctca 180
 ccagcgggtg cttcagtatg tgaaaaccca attcttcaac cctacaggat ccaacaggca 240
 atcgcagcag gcatcttacc tttatcacc ttgttctctc aacaaccgtc agccctatta 300
 cagcagttac ctttggtgca tttgttggca caaaacatca aggcacaaca actacaacaa 360
 cttgtgctag gaaaccttgc tgctactct cagcaacagc cagttcttcc attcaaccaa 420
 ctg 423

<210> 11063
 <211> 399
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-033-Q1-K1-C10

<400> 11063
gaaagaaaag atcagagatt gtaaattgtgc ttctgctcct tccggatatg aacgtgagtg 60
cgttgaccag ggatcggaag accgcgttcg acatagccga gggccttccc ctgtcagagg 120
agtctcaaga aatcaaggag tgctgtccc gtgccggtgc ggtcagagca aacgatctga 180
accagcctcg ggacgagctg aggaaaacag tgacagagat aaagaaggac gtgcataccc 240
agctggagca ggcgaggaaa accaacaaga acgtgtacgg catcgccaag gagctgaaga 300
agctccacag ggaaagcatc aacaacgcga cgaactcggg gaccgtcgtg gcggtgctgt 360
tcgcgacggt ggcgttcgag gcgatcttca cggtgcccg 399

<210> 11064
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-C12

<400> 11064
cggacgcgtg ggtgccggcc ggcgcccagc actggctgta caacgacggc gacgcgccgc 60
ttgtggcggg ctacgtcttc gacgagaaca acaacatcaa ccagctcgag ctttccatga 120
ggaaattctt gctggctggg ggcttcagca aggggcagcc ccacttcgcc gagaacatct 180
tcaaagggat cgacgcccgg ttcttgagcg aagccctggg cgtcagcatg cacgtcgccg 240
agaagctgca gagccggcgt gaccagcgag gcgagatcgt ccgcgtggag ccggagcacg 300
gctttcacca gctgaatccg tcgccgtcgt cgtcgtcgtt ttcgttccca tcgtcacaag 360
tccagtacca aacgtgccag cgcgacgtcg acaggcacia cgtctgcgcc at 412

<210> 11065
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-C3

<400> 11065
attgagcttc tgtaaattag agaacaggat aatctctggt gagcgcattt atcaatattg 60
caggcttcct agtgaagcac cattgattat tgagaactgc cgtccaccat catcatggcc 120

tcagaatgga aacattgaac tgattgatct caaggtccgc tacaaggacg atctaccatt 180
 agttcttcat ggtgtaagtt gtatgtttcc tggcgggaaa aagattggga ttgtagggcg 240
 tactggaagc ggtaaatacta ctcttattca ggccttttc cgcctaattg agcccaactgg 300
 agggaagatt ataattgaca acattgacat ctctgcaatt ggccttcatg atctgcggtc 360
 acggttgagc atcattcccc aagaccctac attatttgag ggtactatca gaatg 415

<210> 11066
 <211> 228
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-C4

<400> 11066

caaggacaag gacgaccca acctgggcat caagatcaac gccaccctcg cgctcgggct 60
 cggcaacgcc tgcggcgcca cccgcgcca cgtctccac tgcgctcagc tcctgcatat 120
 tccccgggc tccaaagacg ccgccgtctt cagcccccg cggcgacaag ggctccactg 180
 ccgctccagc caaggacaac tcgacggcga cgaccgact ccgcgcgc 228

<210> 11067
 <211> 342
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-B10

<400> 11067

gcatagccat cttcttcgtc gacaagcttg ggagttaggt ctcacatgca tgcttcagca 60
 cagtgttgac tgcataacga aacacattgt cgtcggatcg gagatgatga gttctgtcgt 120
 ctgtgatgct tatgccttca attgggcttt tctttgcttc ggtgttcttg tctcgtctgg 180
 gtttcagact ccagatttg agcataagac accggtcctt ggtttccttg ccgccttgcc 240
 ggctgcaatg ttatggcgct tgcggtgtta tgtatagcct gaattctgtg atgacggtga 300
 agttctcggtt gttgggaaat tttttctgtg ctttctcttt tc 342

<210> 11068
 <211> 331

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-032-Q1-K1-H5

 <400> 11068

 agcaacatag aaagcacaat agtgtacca cattggctgc caaaatattt tgctgcgta 60
 tgctccttgg tctttctgca agtgctgcta cggcgaccat tttcccgcaa tgctcgcaag 120
 ctctatagc ttccattctt ccccggtacc tgtcaccagc ggagtcttcg gtatgtgaaa 180
 acccaattct tgaaccctac aggatccaac aggcaatcgc agctggcatc ttaccttgat 240
 cacacttggt cctccaacaa tcatcagccc tattacaaca gttacctttg gtgcatttat 300
 tggcacaata catcatggca tcatcaacta c 331

<210> 11069
 <211> 334
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-032-Q1-K1-H6

 <400> 11069

 aacaaagtta ggtttatccg ctgtgttggt gataatgaaa ttatagttaa caaccggaaa 60
 agggcagatc tattttttgga gcttcggcag aagaattttg atcctttccc aaagaaaaaa 120
 aagagggctg aaccagctgc tgtaggtgct ttagaagagg aggaaaatga agagagtcct 180
 gaagctgctg gagcggaacc tagtgactat gagtatctcc tctcaatgtc aattggtacg 240
 ttgactttgg aaaagataca ggagcttaat gctgagaaac ataaattagt ggatgatngt 300
 gaggaattgg agaatatgtc accaaaaatca ctat 334

<210> 11070
 <211> 387
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-032-Q1-K1-H7

 <400> 11070

 cccacgcgtt cgcccacgcg ttcggccacg cgtccgattg agaccaacaa gcgacataga 60

aagtggaatc cagtagcaac aatagagcaa caatggcgac caagatattt tccctcctta 120
 tgctacttgc tctttctgca tgtgttgcta acgcgacaat tttgcctcaa tgctcacaag 180
 ctccatagc ttaccttctt ccaccatacc ttacatcaat gatagcttca gtatgtgaaa 240
 acccagctct tcaaccctat aggtccaac aagcaatcgc agcaagcaac atacctttat 300
 cacccttggt tcaacaatcg ccagccctat cttttgtgca atcattggta caaaccatca 360
 gggcacagca gctgcagcaa ctctgtgc 387

<210> 11071
 <211> 384
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-H9

<400> 11071
 gtgctggcga taccgatctc accttcctaa tctacacaaa ttttgatat caggcgggtc 60
 acattgacta agctcttaaa accactattc accaacaag agatgacgat ctttatggca 120
 gatctctatg cacatggtaa gaccaccatc ctctactagc tcaagctagt agaaatcgcg 180
 accaccatcc ctacaatcgg gtttaatgtg gagactgttg aatacaagaa cattagcttc 240
 actgtctggg atgttggagg tcatgacaag atcaggccat tgtggaggca ctatttccag 300
 aacacccaag gccttatctt tgttgctgat agcaatgaca gagatcgtgt tgttgaagca 360
 aaggatgagc tccacaggat gctg 384

<210> 11072
 <211> 390
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-033-Q1-K1-A1

<400> 11072
 cgcaacgcaa aaacaagcac aaacacgcgc gatccgatct gggccggcca agcagccgcc 60
 catccatggc gactaggggt tggctcaccg ccctcctgct tggtttcttc gtcgccgctt 120
 ccccttcac cggccgagtt gctagagctg aatccgagga agatgctgct gcagctgagg 180
 ttgttgaagg ggtgatcta ggtattgtgg gtgatgatac acaggtttcc agtgatggac 240

ctttaagtcc tgctcctggt gtagagacag tagttgtctt cccaaaaaat gctggcaaaa 300
 ttgtactagc aggtgaagaa actgaattac tagttggtct gcaaaatgac ggtgaatcaa 360
 ttttgaatgt tgntgctgnt cattcaactc 390

<210> 11073
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-A11

<400> 11073

ccggggtgtc gctgttcgac acgtgctacg acctgtcgga ccggacgagc gtggaggtgc 60
 ccgcgggtgtc gctgcggttc gagggcggeg ggcgctgceg gctgcggcg aagaactacc 120
 tgatccccgt ggacggagcc ggcacctact gcctggcggt cgcgccgacg aacgcggccg 180
 tgtccatcat cgggaacgtg cagcagcagg gcacccgctg cagcttcgac accggcaggg 240
 gcgcccgtcg cttcaccccc aacaagtgt agcctagcct agcctaagcc tgacttctgg 300
 ctaaccgtgc cctgttagcc acggatgtca gtagcaatga caagccggtg tttgactagc 360
 gggagaatga ttagatgggg ggtaattgac cgggtgggccc tgccgaatct ggggag 416

<210> 11074
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-A12

<400> 11074

cccacgcgtc cgccacgcg tccgggcgtt ggcagcacc ccatcctggg ccagtgcgtc 60
 gagtttctga ggcatcagtg cagcccagcg gcgacgccct actgctcgcc tcagtgccag 120
 tcgttgccggc agcagtgttg ccagcagctc aggcaggtgg agccgcagca ccggtaccag 180
 gcgatcttcg gcttggctct ccagtcctac ctgcagcagc agccgcaaag cggccaggtc 240
 gcggggctgt tggcggcgca gatagcgag caactgacgg cgatgtgcgg cctgcagcag 300
 ccgactccat gccctacgc tgctgccggc ggtgtcccc actgaagaaa ctatgtgctg 360
 tagtatagcc gctggctagc tagctagttg agtcatttag cggcgatgat tgagtaataa 420

t

421

<210> 11075
<211> 312
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-A2

<400> 11075

gtcaacgtcc gcaaatacct ccagcctcgc atggaacatc atagaaactc aaaactggta 60
gggccaaacag attaacattc ttcacatcaaca tatttttcgt ctttaatctc atagctattt 120
ctgcatgcgt tgcttacgct acaaatcagc cttaatgctc acaacctcat atagcttacc 180
taatagcgag atacctetta tcaatgatag ettacattat tctaaaaccc agcttttcat 240
ccatataggc tacatccatc cacttcatca cgcaacatac ctatatcacc cttcttgact 300
caactataat ca 312

<210> 11076
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-A3

<400> 11076

agctactgcc tactctcagc aacaacaact tcttccattt aaccaattgg ccgcactgaa 60
ccccgctgct tatttgcagc agcaaatact actaccattt agccagctag ctgcagcaaa 120
ccgtgcttcc ttcttgacac agcaacagtt gctgcctttc taccagcagt ttgcggctaa 180
ccccgcaacc ctcttacaac tacaacaatt gttgcccttt gtccaacttg ctttgacaga 240
cccagcggcc tcctaccaac aacacatcat tgggtggtgcc ctctttttaga ttgcttatta 300
gttgtaattc aataataaag ttttttggat gatgtatgtg gcccaaccaga aataagaagt 360
tacatttcca gattctat 378

<210> 11077
<211> 345
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-033-Q1-K1-A8

<400> 11077

accggttctc ggaannntcc cggcgctcgac ccaacgcgtc gcgccgcacg ccgtctcgtc 60
ccccgcgaat ccaatttcag ctctngccgc cgctgccgtc agcaaggcag gggagcgagc 120
aaggggatgc cgtngctggc cacngtngc tgcgcnntcg cggacccgcg cgacnnctgt 180
tcgcgccgcn ctcttccgc aagaaagggg gctacatnnc ccgctcaacc aacctaacct 240
nnccgcacct accaagaatc ggcgaaactac gttnncgacgt caaagggtga accggcnngc 300
cgtccccaca agggggaatn ngccgcacan nagttctaaa ccacg 345

<210> 11078

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-A9

<400> 11078

aacacaccaa gcgaagcgca ctagcaacga cctaacacca atggctacca agatatgagc 60
cctccttgcg cttcttgccc ttttagtgag cgcaacaaat gcgttcatta ttccacagtg 120
ctcacttgct cctagtgcc a ttattccaca gttcctccca ccagttactt caatgggctt 180
cgaacatcca gccgtgcaag cctacaggct acaactagcg cttgcggcga gcgccttaca 240
acaaccaatt gcccaattgc aacaacaatc cttggcacat ctaaccctac aaaccattgc 300
aacgcaacaa caacaacaac agttttctgcc atcactgagc cacctagccg tggatgaacc 360
tgtcacctac ttgcaacagc agctgcttgc atccaaccca cttgctctgg cg 412

<210> 11079

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-F8

<400> 11079

gaccgcttca gtatgtgaaa acccagccct tcaaccctac aggctccaac aagcaatggc 60

aacaagcaac ttacctttat caccctgtt ctttcaacaa tcgccagccc tatctttggt 120
gcagtcattg gtacaaacca tcagggcaca acagctgcag caactcgtgc taccagtgat 180
cagccaagta gctctggcaa acctttctcc ctactctcag caacaacaat ttcttccatt 240
caaccaactg tctacactga accctgctgc ttatttgcag caacaacaac tactaccatt 300
cagccagcta gctactgcct actctcagca gcaacaattt cttccattta accaattcgc 360
cgactgaac cctctgctt atttccagca gcaaatacta ctacca 406

<210> 11080
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-F9

<400> 11080
taaccaatta aaaataaaaa aaacaccatt cctacaaccc tacaaactcc aacaagcaat 60
gtcaacatgc aacttacctt tatcaccctt gttctttcaa caatcgccag ccctatcttt 120
ggtgcagtca ttggtacaaa ccatcagggc acaacagctg cagcaactcg tgctaccagt 180
gatcagccaa gtatctctgg caaacctttc tccctactct cagcaacaac aatttcttcc 240
attcaaccaa ctgtctacac tgaaccctgc tgcttatttg catcaacaac aactactacc 300
attcagccag ctagctactg cctactctca gcaacaacaa tttcttccat ttaaccaatt 360
cgccgcactg aacccttatt cttattttcca gcatc 395

<210> 11081
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-G10

<400> 11081
agaccttctt cgccgcccgc atattggcta tgcgccatcc caggaaactg gtccctggcag 60
gctgtttgac tgcactaata gtgatgacag ctctatcagc ttctctaggt tgggttgac 120
caaactgat ttgcgtaaa tggactcatc atgtgaccac tctattgttc tttgtatttg 180
gtatttggtc attgtgggaa ggcttcaagg aagatggaga ttcagaagaa ttggctgaag 240

ttgaagcaga gctggatgat gtctttaaga gtaataaagg cgaatctaaa aataaaacta 300
aggcaaacga tgatacgaag aaacagcaaa gaccatttct catgcaattc ttctcaccaa 360
ttttcataaa ggcattttct attacatt 388

<210> 11082
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-G12

<400> 11082

caagcacaag gacaagctcc cgcccaactt ccgcaagctt ctgaacgttc agctcaagaa 60
gctcgtcgcc ggcggcaagc tgaccaaggt gaagaactcg tacaagctgt cgtccgccgc 120

caccaagccg aatcccaagc ccaaggccgc cccgaagaag cccaagaccg gcgctaagaa 180
gccaaggcc gctgccaaga ccaaagctaa gacccccgcc aaggcgaagc ccgccacaaa 240
gccaagccc gccggaagc cgaaagccgt agtgaagccg aagacacccg ccaagcccaa 300
ggccaagcca gctgccaagg cgaagcccaa gaccgccggc gctaagccga atccacttgc 360
taagaaagcc g 371

<210> 11083
<211> 377
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-032-Q1-K1-G2

<400> 11083

attggaccaa ctagcaacat agaaagcaca ttagtgtacc aacaatggca gccaaagtat 60
tgtgcctcct tatgtcctt ggtctttctg caagtgtgc tacggcgacc attttccgc 120
aatgtcaca agctcctata gtttcccttc ttccccgta cctctcacca gtgttgtctt 180
cagtatgtga aaaccaatt cttcaaccct acaggatcca acatgcaatt gcatcaggca 240
tcttaccttt atcacccttg ttctccaac aatcatcagc cctattacag cagttacctt 300
tggtgcantt attggcacat aacatcaggg cacaacaact cgtgctagca aaccttgctg 360
cctactctca gcaacaa 377

<210> 11084
 <211> 294
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-G3

<400> 11084

tcccggtcgc ccacgcgtcc tcccactctt cgcgccactc gtcgcgtttc tegttegctc 60
 cactgacagc cgcggaagat caataactcaa ctatacaatc ctacatgggt caagaggcca 120
 tccaagcttg catcttacgt tcattaacta aaatcctaca tcaaccatat actatattgc 180
 aacatccatt cttaatgcat ctgtataatc aacgaatttc ataacaacaa ctactacatc 240
 aaattcatac caacaatcaa tcaagtagtt tcagcgaatc tttgtgctta cttt 294

<210> 11085
 <211> 199
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-G4

<400> 11085

ctgctatagc gatgaccaac cagggcggtc aagtctttcc agagataatg gttcctcttg 60
 ttggatcacc tcatgaattg ggacatcaag tggcccttat ccgtcaagtc tctaactaag 120
 ttttcaccag tatggggaaa actattgcgt acatgatcgg aacgatgact gagattctca 180
 gggcagctct agcggctta 199

<210> 11086
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-G7

<400> 11086

ccgatacctt ccatcaatga tagcttcagt atgtgaaaac ccattctctc aaccctggag 60
 gcgccaacaa gcaatcgcat catgcaacat acctttatca cccttggttc aacaatcgcc 120
 agccctatct ttggtgcagt cattgggttca aaccatcagg gcacagcagc tgcagcaact 180

cgtgctacct gtgatcaacc aagtagctct ggcaaacct tctgcctact ctcagcatca 240
 acaatttctt ccattcaacc aactgtctac attgaaccgt gctgcttatt tgcagcaaca 300
 actattacca ttcagccagc tagctactgc ctactctcag caacaacaac ttcttccatt 360
 taaccaattg gccgcactga accccgctgc ttatttgcag cagcaaatac tactaccatt 420
 ta 422

<210> 11087
 <211> 393
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-032-Q1-K1-G9
 <400> 11087

cccacgcgtc cgcgcacata tctactatac tatactctag gaagcaagga caccaccgcc 60
 atggcagcca agatgcttgc attgttcgct ctctagctc tttgtgcaag cgccactagt 120
 gcgaccata ttccagggca cttgccacca gtcatgccat tgggtaccat gaacccatgc 180
 atgcagtact gcatgatgca acaggggctt gccagcttga tggcgtgtcc gtcctgatg 240
 ctgcagcaac tgttggcctt accgcttcag acgatgccag tgatgatgcc acagatgatg 300
 acgcctaaca tgatgtcacc attgatgatg ccgagcatga tgtcaccaat ggtcttgccg 360
 agcatgatgt cgcaaatac gatgccacaa tgt 393

<210> 11088
 <211> 388
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-032-Q1-K1-H10
 <400> 11088

atcctgcgtt tgctgaacac caacgtggat gggaagcaga agatcatggt cgccatgacc 60
 tcaatcaagg gtgtcgggag ccgcttctcc aacatcgtct gcaagaaggc cgacatcgac 120
 atgaacaaga gggccggcga gctgacgcct gatgagctgg agcgctgat gacggtcgtg 180
 gccaaccta ggcaattcaa ggtgccggac tggttcctca acaggaagaa ggattacaag 240

gacggcaggt tctcgcaggt cgtctccaac gcccttgata tgaagctcag ggacgacctt 300
gagaggctca agaagatcag gaaccaccgt ggtctgcgtc actactgggg cctncgcgtc 360
cgtggccagc acaccaagac tactggca 388

<210> 11089

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-H11

<400> 11089

ggacgatcac tacgactgga gaggggtggc gcctcgggaa aactacataa acaatcggct 60
caaggatttg gacggggcca tgaagacatc gactgcggcg tggaaggttg ccgtgggcca 120

ccataccatg aggagtgtca gtgatcatgg tgacaccaag gagctactgc agctactgct 180
tccagtccta caggccaacg gcgtcgattt ctacatcaac gggcatgacc actgcctgga 240
acacatcagc agcagagaca gcccaatcca gtacttcaca agcggatgcg gttccaaagc 300
atggagagga gtgcagaacc ccaccgaaga tgacctcaag ttcttctacg actggcaagg 360
cttcatgtgc atacagctag 380

<210> 11090

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-H12

<400> 11090

cccacgcgtc cgcccaaata tccctccagc gccgcagcta gcccgagaag ccgacgggga 60
ggaaaccgac cgccgacgcc gagcaccctc ggttccctggc tttcccgggc cccaatctag 120
acagctcttt ctggttcgtc tgtatccatg gccgcgcct cgagcaagac catcgctgtc 180
ctcctcgccg cgctgctcct cgcgctggc gcgtccgcg tggccagcag gaagctggag 240
gaggaggacg ctttccctggg aagcctttcg ccggcgccctg ccccgccga gggcggagcc 300
gcggggctcg ctagcggcac gccggggcg tgggcccgtcg ccgctctggt ctctctcatc 360
gccttccctcg cgaactgagc gggtcctg 388

<210> 11091
 <211> 293
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-032-Q1-K1-H2

 <400> 11091

 gctatcgac gctatgttgc tcgcttgaag gatgacaacc ctcttttttg gtcttgccgt 60
 attgaacaag cccacgttga gcaatggatg gattttgccg caacagaagt tgatcctggt 120
 gttgcatggt acttgatcc aaggcttggg tacctccctt atgtagcac aactgaggaa 180
 acagctatct cttcattgaa gaggtcgctt ggtgctctga acacacacct tgcttcaaac 240
 acataccttg ttgggcatgc tgttactcta gctgacattg taatgacatg caa 293

<210> 11092
 <211> 392
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-032-Q1-K1-D9

 <400> 11092

 accttctgaa accgtgtccg agaaattccc agtctcgacc accgaagtgg aaatggggga 60
 caagtcagtg gttgaggaag agctgactgt ggcaaagag agcaagatct caccggtgaa 120
 gtccaagctt ccctacgagg ctgatgaaga ggaggaagtc gacgagtggc cccgatgacga 180
 tgacgacccc accgatgagg ctggccaggc ggcgggtgac aggactttgc tagggcgagg 240
 ggaggaggac gtatcgttca gtgatctgga ggacgacgag gacgatgata ggaggtagaa 300
 ggggatgatg ggcagtagcc aagttggcta ggggaagctc gtactatggt cccggcgcaa 360
 ccacatgctg gcttcattgg agtaaggccg ag 392

<210> 11093
 <211> 383
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-032-Q1-K1-E10

 <400> 11093

gcggggcgcgc ggggcctgca gctggccgtg gtgctgccct gcatgaccac gggcccgatg 60
ctgcagcaga cgctcaactt cagcaccaac cacgtcgcgc gctacctcat gggcaccaag 120
cgctccatcc ccaacgccgt cgccgcctac gtcgacgtcc gcgacgtcgc gcgcgcgcac 180
gtgctcgcct acgagcgccc cggagccagg ggccggtacc tctgcatcgg caccgtgctg 240
caccgcgccg acctcgtcga catgctcagg gacctcttcc cgcagtaccc cgtcacggcc 300
aagtgcgagg aggacggcaa gccaatggcg aagccgttca agttctccaa ccagaggctc 360
anggacctgg ggctggagtt cac 383

<210> 11094
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-E12

<400> 11094
cggacgcgtg ggggatgatg gacgtgcagt ccgtcgcgca gcagctgcag atgatggggc 60
agcttgagcg tgccgctgcc gccagcagca gcctgtacga gccagctctg atgcagcagc 120
agcagcagct gttggcagct caggggtctca accccatggc catgatgatg gcccagaaca 180
tgccggccat ggggtggactc taccagtacc agctgcccag ctaccgcacc acctcctgtg 240
gcgtctccgc tgccattccg ccctactact gattcatgat atttgggaaa tctcctctat 300
ccatccctct ctatctatat ctgtaataat gcagtaagac gacacacatt atcatgtgtg 360
gtatgaccaa taatatatgc atgatacataa t 391

<210> 11095
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-E4

<400> 11095
gtgccccgct actaccgta cccaacgct ggctcgggga tgccgatgct tcctatggca 60
ggaggtatag gtggtggcgc cgggtgggctc cacctcaacg gcgccttcct gttcggcaat 120
ccgatggccg cgccccagcc catgagcttc taccaccaga tgggcacggg gactgcttgc 180

gctggcggct tcgatgtttc tgcgccggag agtaggccgt cctcgatggt gtcgcagaag 240
gacgaccagg ctaatggcgc tgagatctcg tcgatgatgt ccgtggccgg cccagggcct 300
gcgaccacca ccaccataga gatggatggc gtgtggaagt actgaaaacg tggagggtgg 360
agggcaaaga catgaattcg cataaattaa atatgcatgt aatatctata tctgc 415

<210> 11096
<211> 243
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-E7

<400> 11096

tctaccact cttcctacta cttctagatc tcgagcttcc gcttttcttt ttctttccat 60
ttcttacttt tcggcttggc tctttttttg gttttatata tccatcctat acatatatat 120
ctaaattcta cattacaatg ttccaaaaaa aatattaaaa ctttcaaatt ttaataaaat 180
ataattaaca aataataaaa taattataaa aaatttttaa aaaatattaa actaaaaata 240
ata 243

<210> 11097
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-E8

<400> 11097

tcaacaactt acaatccatg ttatcataac aagccttcta acacttaggt gtagaactct 60
tttcgtcatg agctccaacc tgacatatat atttaaactc taattccaat gtcccaaaca 120
acaaaacaaa catattaaac aaaaatacaa actaaaacac taacattaat aaaaaaaca 180
ataaaacaac aaaaaaatac aatattaaaa ccaaaaaatt aaacctaca aaaccactaa 240
caatccacct atcataatac ctctatcacc ctcaatcctg caacaaacat aacatcttat 300
aaataaacta cctaacttta atttacctcc cctctttatt aaaac 345

<210> 11098
<211> 392

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-032-Q1-K1-E9
 <400> 11098
 cggacgcgtg ggcggacgcg tgggaggacg cgtgggggtg gtgcacacat tagtttgttt 60
 gtggttttat atgacctagg caattttatc ccagaaataa ttttgttaaa agactctgta 120
 ctgttctcat gttctgtagc atggtgattt tttgctagat gtcattgtttc cttttaggaa 180
 gatgagatga gatattttga tgtgccctcg tttacaatta ccatgttata gttgctttac 240
 atttaaaaaa aaaggaactt actccatcag ccatttggtt aaacagcttg tttctgtctg 300
 agataggaag catgagactt aaaaaatcta ctgaaatcat gttccagggt ttgattgcaa 360
 ctgcctggat attggctcta atcctattag tg 392

<210> 11099
 <211> 411
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-032-Q1-K1-F1
 <400> 11099
 caagaagtgg acaattcatg gcatcagagg gatggccttt gaagagggtg gctgtgggat 60
 ctctttctgg tcatgagctc caacctgtac atatatatgt aaattctaga ttccaatgtc 120
 ccaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa agggggggccc tttttaaagg ccccatcttt actaccctg 300
 gctggcaa at caaaactttt tttatagggc ccccaaatta cattcattgg cccgcttttt 360
 aaaaatgtca aaatgggaaa aaccttgggg tacccaactt aaatgccttg g 411

<210> 11100
 <211> 385
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-032-Q1-K1-F10
 <400> 11100

gtttcgccgg agtatttagc ttgcttcagg gagcacgtgg cgggtggaagc ttccctaggg 60
 gtggcgagg cgggtggtgt gcttggttga tgtcgatggc gcaggtctgc tgtgactcgg 120
 ccgtagcggc gacggcggca cgggtggttg gtgcggaggc ggaggccagg gccagggcgc 180
 gcgccgagag gcgagaccgg gccggagagt ctggggcgtg gaagcacgcg gtggccgctg 240
 gcacggccga tgctacgagg aagcggagtc tcggggcagg ggagctgctg gtggcgcgga 300
 agcacggtgc ggcgtcgggt gccggccgca tgaggagat ggaggatgcc gtgtccgtgc 360
 gcgacgcgtt ctgcgcggag ggcac 385

<210> 11101
 <211> 327
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-F11

<400> 11101

cggacgcgtg ggcggacgcg tgggataagg aagcccctga aggaagctgg acctgcgcag 60
 agtgcaacaa cctgaactac ccattccgca cgggtgtgtaa caggaaagga tgctcgtaca 120
 gcaagccagc cccggcgaac aactgaaccc aaccttcgcg catcgtcgag ctattgttgt 180
 acccgtagat tgtatcctag tcgtgtgcaa tctttgaact gcacaaagat gtttttgtgc 240
 ctggagacga gagattcgat tcgttacgct taatttacta ttatacattt ttattaaatg 300
 atgaaaaacta gggaagagca ttatatc 327

<210> 11102
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-F12

<400> 11102

cccacgcgtc cggcaacata taaagcacia tagtgtacca acaatggcag ccaaaggatt 60
 ttgcctcctt atgctccttg gtctttctgc aagtgtgtct acggcgacca ttttcccgca 120
 atgctcgcaa gctcctatag ctcccttct tccccgtac ctctcaccag cgggtgtcttc 180
 ggtatgtgaa aacccaattc ttcaacccta caggatcaa caggcaatcg cagctggcat 240

cttaccttta tcacccttgt tctccaaca atcatcagcc ctattacaac agttaccttt 300
 ggtgcattta ttggcacaaa acatcagggc acaacaacta caacaacttg tgctagcaaa 360
 ccttgctgcc tactctcagc aacagcag 388

<210> 11103
 <211> 430
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-032-Q1-K1-F2

<400> 11103

gatcagtcaa acataccgga tttgccaaat gaaaagaagc agtttattcc ttttgctct 60

cgaccgcccg ttctttctcc ttcggtggga aaagccgaga cagttccctc accttctctg 120

tctctccag tgaagccgac agagccagaa ccagaaatcc tcacaaagaa aattgatgaa 180

gtgaccacac cttcagtact tccctcagat tatattttca caaaacagcc agaacaagtg 240

cggacaatct ctccttctga gagtggggca aatattgact tggacgacgt tttatctgct 300

gcgagacag ctgctgaatc agctgagcga gctgcatcag cagcccgctg tgctgcanac 360

cttgcacaaac tgcgcatttc agacctgaag aagaatccaa ggtttatagc aattaccgtg 420

atagcgtcca 430

<210> 11104
 <211> 396
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-B9

<400> 11104

gcaacataga aagcacata gtgtaccaac aatggcagcc aaaatatttt gcctccggat 60

gtccttgggt ctttctgcaa gtgctgtac cgcgaccatt ttcccgcaat gtcacaagc 120

tctatagct tcccttcttc ccccgtaact ctcaccagcg gtgtcttcgg tatgtgaaaa 180

cccaattctt caacctata ggatccaaca ggcaatcgca gctggcatct tacctttatc 240

acccttgctt ctccaacaat catcagccct attacagcag ttacctttgg tgcatttatt 300

ggcacaaaaac atcagggcac aacaactaca acaacttgtg ctagcaaacc ttgctgccta 360
 ctctcagcaa cagcagtttc ttccattcaa ccaact 396

<210> 11105
 <211> 223
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-C1

<400> 11105

ttaaaatcta aagcacttct acccatactg atctatatct tactacaatt tcttaattgt 60
 cttaactact tataataaga acacattgta ttacatata tttctacttc atcttcacca 120
 atatcagtaa ccacctatat catactcact atctatagca cgcaatacta cttacactcc 180
 ctttcaacct cataattata atataccttt acataaattc aat 223

<210> 11106
 <211> 192
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-C10

<400> 11106

gtcagagtga gcaatgacct gaatgaacaa ttgaaatgaa aagaaaaaag tgttgtgcca 60
 aattaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaataaaaaa 120
 taaaaagaat ccaaactcaa aaaaacgaac aaataactaa ataatatatg aaatcaaaat 180
 acataaaaact aa 192

<210> 11107
 <211> 396
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-C11

<400> 11107

ctcaacacta ttgattctga aggcgatagc ccgctccatc atgctgctag aggagagcat 60
 ttggatgttg tcaagcttct tctccaggct ggggcgtccc ccaagaagga gaacacttac 120

gggcagacac ccgctgatat ggctgaccaa gacaccgaag ttcgaaccct gttgactgcc 180
aagcaaattg aggcaagcac acacatgagt gataattaag cggcattgga atccttagtt 240
gcaactggta atgttgagaa atagccgtaa catcttatct gccatccaaa cttcatttga 300
actgaagtaa tactgtaatc agactagtat ggaggggtta gcttagctac atgatcatgc 360
tccttttctt tatcgctgca ttatactaaa gatgaa 396

<210> 11108
<211> 166
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-032-Q1-K1-C2
<400> 11108

ctgccattca accaacttgc ttgacaaac ctagcagtgt tctaccaaca acccatgatt 60
gggtggtgccc tcttttagat ttcttatgag ttatagttca ataataaagt tttttgtctg 120
atgtttgtgg cttcccagaa ataagaaagt acatttctag attctg 166

<210> 11109
<211> 71
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-032-Q1-K1-C3
<400> 11109

ttccctctct acccaactctt cctgctacat ttcccttgac atttttattt aacagcttac 60
ccctactata a 71

<210> 11110
<211> 430
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-032-Q1-K1-C4
<400> 11110

cccacgcgtc cggatatatgc atatgaggct gcacaagtta agaaagcttt ggaggtcgct 60
cactacctag gtggtgaaaa ctatgtgttt tggggtggaa gagaggggtta ccaaactctt 120

ctgaacactg atcttaagag agaacttgac catttggcta actttcttca agctgctgtt 180
gactacaaga agaagattgg attcaacgga aactgttga tagagcctaa accacaggaa 240
cctacaaaac accagtatga ctgggatgtt gcaactacgt ttgcttttct acagaagtat 300
ggtcttaccg gagagttcaa gattaatgtt gagtgcaacc atgctactct atctggacat 360
agctgccatc atgaactgga gactgcacgc attaatgggc tgcttgggaa cattgatgca 420
tacactggtg 430

<210> 11111
<211> 424
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-032-Q1-K1-C8

<400> 11111
cccacgcgtc cgctgctaag gagaataccg tgatctacca tcaagtattc tcgtgtggtc 60
ccaacgatca catccattct aggtatcaat ttgcgcaaag ttttgctcat cgtaaggaga 120
aaattggcca cacaaccata gacttgggtg ttgccttaga aaacctggaa acgcaacagg 180
aggagacct ggcattgtgc aaaccaatgg aacggttgca ggacgttcgg ggtcatattg 240
tttgcttccc tttggagtgc atgtgccaag aggacttgag acctttcttc agtgagagcg 300
agtattatac atctccacaa gttttccatt agggcttggt cggttatttc aatttcattg 360
ggattggtgt gtattggagt gaattaagat gaattttgac ttgctatggg atntaaactg 420
actc 424

<210> 11112
<211> 260
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-C9

<400> 11112
ctgagaagga actaacattt tatttagtgc agacaatcca cagtatcaaa aggcattggca 60
aatggacag tatcatcagc agaagtatcc aatgggcac ggtagtgtac atcttcaaac 120
tgaactttct tcataaacag agattaatga ctatatagct ttgctatacc agtcatctca 180

tctttatcat ggccctggaa gagaaattca aatcctagat acctgataat gaacatgata 240
 tgattgactc acttaaaatt 260

<210> 11113
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-D1

<400> 11113

cggacgcgtg gggcagaagg tgacagtcaa aggcaatgtc aagcctgagg acgtctgccca 60
 gacggtttcc aagtcgggga agaggacctc ctactgggag ggcgaagcca cggccccgga 120
 cgctgcggcg gcttctggag ccgaagcagc tcccggcacc ggcgcagaag cgcctcctgc 180
 tgctgctccg gcggcgccag agatcacccc agccaaagct gacgcctgat cgtcacgcta 240
 ttattcactc acatgtgatg ctgcggtgtc gactcctaaa ccttaaattct agaaatagct 300
 ggggattggg tttgcattgc atcgtgttct tgccggtcta gcaagtgact ataagaataa 360
 tggaataaac gatgaccagc tgtgtgtatg atttccgttc tgaagaacaa cacattcctt 420
 gcagga 426

<210> 11114
 <211> 382
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-D10

<400> 11114

cggacgcgtg ggctcgcgca cgggtgattg ctgccctctg gcagtatatt ggagcgggga 60
 agcttcagaa cccaaatgat ccttccttct tcatgtgtga ccctcaattg aagaagggtg 120
 ttggggagga caagctcaag tttgcaatgc tgtcacagag gatattctcag catctgtctg 180
 ccccgacacc catcaatttg gagcacaaga ttaagctgtc ggggaatgaa tcgcatagca 240
 gtgcttgcta tgatgtgctg gtggatgttc cctatccgct gcagaaagag atgatggcat 300
 tccttgccaa cacagagaag cacatggaca ttgaggcctg cgactaggtg atatctgctt 360
 cgatcatgaa gatccatgag ca 382

<210> 11115
 <211> 251
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-032-Q1-K1-D11

 <400> 11115

 gcagatacaa tagagtatac tatagcgggtt gttctctagg ctgtagcatg cagtggggac 60
 tggaaaatgt tgggggttgct ctggttgctcg tagtttacat gcgcatgtcg gtatgtgtag 120
 ctaaagctgg tggatctcag ttctcagatc ggactcgaga cggggaaaac cattgcccag 180
 ttggctggtt ctctgaagtt ttgtttggtg taaagaaatg gtggtccatc atctactcaa 240
 atttttttct c 251

<210> 11116
 <211> 340
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-032-Q1-K1-D12

 <400> 11116

 gggtcgcccg tgacgctgga ccttcgcccc gaccgcgtcc gtatcttcgt tgacaccgtc 60
 tccatgactc cgacagttgg gtgatacata ccaaagcaa taaacaaacc ctacttttta 120
 ttttatgttt ccagttaata ataaaccagg ccttagcttc ttggttgctc ttccttggtt 180
 ggtgttagct tctaagctac tagtacacca ttaaaaaaag gaggacctca tgtatggcta 240
 ccgtgaaaaa tgtgatcttg atggaataat atatcataaa taagcaatta atgatgataa 300
 aaaaaaaaaa aaaaaataaa tattatataa tgtcacctaa 340

<210> 11117
 <211> 377
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-032-Q1-K1-D4

 <400> 11117

 cggactcgtg gtcggacgcg tgggcatagg catcttccag tcggagtcgc cccatggccc 60

cgcccaccta ttctccctgc cggcggcagc cttaacccta atctcatcgc ctctcttcc 120
 ttctccagtt cctcgaaggc ccatcagaca acagcccctc tttcttctca gccatgtcgg 180
 aggacgaagc gaacgctgct gctgcgccgg cagagggaaa gaactggctg ctgaagggga 240
 agcacgacaa gccaagccg tgggacgagg accccaacat cgaccgctgg aagatcgaca 300
 agttcgaccc tgcctggaac gagggcggca tgctcgaagt cagctccttc tccaccctct 360
 ttccccagta ccgagag 377

<210> 11118
 <211> 206
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-D6

<400> 11118
 ttggtacagt tacccttttc gtcttttaga gggatgaacct caaggagtgt gatgagttct 60
 caagttctgt tgcctgtggc ttgatctgtg gtgattgtat cttcactgtt tattttttca 120
 ttctgttaaa atttattttt tttttttttt ctttattttt actattaatc tatttattac 180
 tattaatatt tatttatctt atttta 206

<210> 11119
 <211> 222
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-D7

<400> 11119
 tcccactcta cccatcttcc tagcactctt cactctattc ttctgattta cattttactc 60
 aatcatatca actttaagac tagcttaact attctcaatt tcattataaa ctacatatca 120
 atacataact acctctccta cctctacaat cataataaaa tttccaacat atatacaatc 180
 ctcaatctta ctctctcata catcctacta tattaacatt ct 222

<210> 11120
 <211> 379
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-A2

<400> 11120

aaagaagctc atggaaatct agttggtggt tgttctggct atttgctttc cactgaagta 60
accgtagtac tgtagtgtga catcctaaat attagctcca ctgtcaactc caaccctgat 120
tctcacactc acaatttgat tgttgggaatt ctaattgtgc tttagggttc tatgtgaaga 180
tacaaaaaaaa tattgcattc ctattctggt cccgtattga aattgccagt ggtccctctg 240
aattttgatc caattgttat aaatttcaga tgaactgaat aaaactacta cttgtaggca 300
aacaataaaa ttgtacgggc atttgagagag aagagagtag aggataattt gaagaaccac 360
gtggaccttt gcaggatgc 379

<210> 11121

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-A3

<400> 11121

agcactagag acatcatcat gagggagttc cggctctggct cctcccgtgt gctcatgacc 60
actgacctgc ttgctcgtgg tattgatggt cagcaggtgt ccttggtcat caactatgat 120
cttcccaccc agccagagaa ctacctgcat cgtattggtc gtagtggtcg ttttggtagg 180
aagggtgttg ccatcaactt tgtgaccgcg gacgacgaac gtatgctgtt tgacattcag 240
aagttctaca acgtgttgat tgaggagctg cctgccaatg ttgctgacct tctgggatca 300
at ttgagaaa aacataaca aaaaaaggtg gtgagggaac ccggttaaggg attggttttg 360
tcg 363

<210> 11122

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-A4

<400> 11122

gctagatagc atccaagaca aatagcgctg ttggcgatct gaggcaactg gtaagcagtc 60

tgggcttggg cgcacgccag gcataaaggg aaggctctga acacgttata ttcaaaaggc 120
aagacaacat cttctaaaag cctggtgcga caagcccacg gtagttgccca attgcgtaca 180
tgcatttgaa cagatctggg ctctaaaaac tgctaacttg gtagcagaaa gattgatgca 240
ttgcatatca taccactgga tcaaagagtt tagtgaatgg ccacaatgca tgttcttgag 300
ttggcatcaa agttccttcc atataataat aacaaaatat ttgacataat gaatctgttg 360
gaggatagac ttcaacatgc aaatggaacc gttgttttgg caacaatt 408

<210> 11123
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-A7

<400> 11123

gacgtacgcg tacgcgacg accacgcgta cgaccacgcg ttcggtctgg aaggccagat 60
atgcggcaga ggtgaaggta atgcctggtt cccgagtatc attactacag ctctgttgca 120
agtctggaag gccagatatg gcggcacatt taggtagtca gcattgtcga ggaaccctac 180
taatgtctaa tacttctctt gttttttatt tgtcatgttt tagtaaaaaa taaattagcg 240
ggcgataaat attcgagaac ggatgtagta ttttttatgt acagggttcgg ctgcagtttc 300
ttgtatcact tttgctgtgt tgtgttggaac atacggtgtt ttgcttccaa tgaattagga 360
aagggtgtag aggcttagag ccaccgtgtt actgattagc gttatgggct gtgtcaggtg 420
cattatgc 428

<210> 11124
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-A8

<400> 11124

cggacgcgtg ggtcatggtt gaccacatga ggaagatgaa gaacaatgcc attgtctgga 60
acattggcca atttgacaat gaaattgata ttcttggggc ttaaaactta cttgcctta 120
agcggattaa catataaccc caaaactaga cctttgtgtg tccccagacc caaactgtga 180

tatatgtgcc ctctctgagg ctctctgagga aaccttggtg tgctacagtg cataactacta 240
tctgtatagt ctgctgatta ttcactaacc aggtcattgc ccaacttgaa ctgtggaagg 300
agaagagctc tggcaagtat gagaagaagg tgtatgtgct cccaagcac cttgatgaga 360
aggttgctgc tctccacttg ggcaagcttg gtgccaagct gaccaagct 409

<210> 11125
<211> 394
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-032-Q1-K1-A9

<400> 11125

ctagcaacat acatagtga gtagactagc aacatcttag caccaatggc agccaagatt 60
tttgcctcc ttgcctcct tgctctttca gcaaacttg ctaccgcgac tattattcca 120
caatgctcac aacaatacct ctctccggtg acagccgca gatttgaata cccaactata 180
caatcctaca ggctacaaga ggccatcgca gcaagcatct tacggtcggt agcattgact 240
gtccaacaac catatgccct attgcaacaa ccaccttag tgaatctata tctccaaaga 300
atcgtagcac aacaactaca acaacaattg cttccaacaa tcaaacaagt agttgcagcg 360
aaccttgatg cttacctnca gcaacaacaa tttc 394

<210> 11126
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-B1

<400> 11126

ggtgtaattg cgaaaagat cttcaacat gcagattgtg ctggagctgt gttctagtct 60
gtcatgaaga gtgcattact ggctgcacaa tctagtaatg atactctttt gaagacaact 120
gctgacgcac ttggcaagt gaaggatctt ttgcgcaatt acaccaagac agttgatgaa 180
gagatggaga tactttttaa gtttgaggaa atgtgtcaag agaccacaaa agatttttct 240
ccgctgtttc caaagatctt gccatacctc tatgatacgg aggtagtaag tgaagatgca 300

atTTTgagat gggcggaaga gaaagaacat gctgatgagt ctgataaagt cTTtgTtaaa 360
cagtcagaag cTTTtattca gtggctcaag gaagctgaag aggaagatga cgaagaag 418

<210> 11127
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-B10

<400> 11127

ctctcatgct gatggagact gtgagaatga cctccaaagc ctgataagt actgcaggac 60
atacgtgatg ttcccagcta atccaaaggt ccctccttcg gatgcttgct gtggtgtcat 120
caagaaggca aacgtttctt gcttggtgctc caaggtcacc aaagaaactg agaagggtgt 180

gtgcatggag aaggttgtgt atgttgctga gcagtgtgag aggccatttg agcatggctt 240
ccagtgcgga agctacaagg ttccagcaaa ctgatgatat cacaagaggg aagcgcttga 300
cgtagtcttt agatttcaat tgttgagcgc gatcaacctt cttagggttg tataatatga 360
agtcaatgtt gagactaatg tgaggtggga ga 392

<210> 11128
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-B11

<400> 11128

cggacgcgtg ggcggacgcg tgggtccgcc gcctcgacat ccctccgcg cgaccgcgcg 60
ccatcctcaa ctccgccacg gggctgggag gcggcgccgc cacggccggc gcggcggtg 120
agaaggcggc ggcggcagct gagaagacgg tcttcgagct gcggctggag gcctacgatg 180
ctgcgagcaa gatcaagggt atcaaggaga tccggtcatt cactgacctg gggctgaagg 240
aggccaagga gctggcggag aaggcgctg cggcgatcaa gggaggccta tccaaggagg 300
aggctcaggc gattgtcgag cgaatgaagg cagtcggcgc caaggtcatt attgactgat 360
cagaacaagc cTTTtcagtG gtgaagtcct gcaaat 396

<210> 11129

<211> 390
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-032-Q1-K1-B12
 <400> 11129

aaagaagctt ctgattacct tgatatcata cggtacccaa tggatcttgg tgccatgagg 60
 gacaagggtga gaaagatggg gtacagaaac agggatgaat tcaggcacga cgtagcacag 120
 atacaactca atgcacacat atacaacgac actcgctatc ctcacatccc tccgcttgct 180
 gacgagctca tggaggtctg cgaccatctg ctttacgaaa acgcagatct gctcaccgag 240
 gcggaagatg ctatcgagta gcaatataaa aagctagatt tagcatttgg atcttgctat 300
 atcctaacat agatgatgta tctatcttct gatctgtaag aggggaaaag gttgtacatt 360
 ttttgggcct agcagcaatc tacatgtgat 390

<210> 11130
 <211> 389
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-032-Q1-K1-B5
 <400> 11130

cggtaataag ggaagcttga tcgggtttcc ttacggcggt gatgaagagc agcacaatcg 60
 tcgcgcttct gttggctggt gccattctgt cctcgctgtc tccatgctac gaagccggcg 120
 gctgcatcgg gaaacccaag aagtcaccgt cgtcgccgag aaggccatac ctctcgtcct 180
 attccgagga ccaccagaac tgccgcttga tctgtagctc gaagggtttc aaggacggtg 240
 gctggtgtga cgaaagcgtc gagcaciaaag tgtgctgctg ctcccattag aaatataata 300
 tcgtatgtta tgttgatgca tatatatgca tcatccatct acctgtgtgg tgcaaaaattc 360
 tgaataaaaat ctacctgtgt ggtgcaaaa 389

<210> 11131
 <211> 174
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-032-Q1-K1-B6

<400> 11131

cccacgcgtc cgagaagatc aaagccgtcg gcggcgccgt cgtgctcacc gccgtagggt 60
cagtccttat tcgcctcttg gttttgagat ctatatctgg actagcagtg ctttcttgtc 120
tcacctattt gtgttaagaa gacgtagttt ttaaattccat tgctccttcc tgtt 174

<210> 11132

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-B7

<400> 11132

gtcaggatgc gacaaacgtt ggggatgaag gtggttttgc acctaacatt caggaaggca 60
aagaaggcct tgaactattg aaggcagcca tagaaaaggc tggctacact ggaaagggtg 120
tcattggaat ggatgttgct gcttctgagt tcttcggtga gaaagacaag acttatgac 180
ttaatttcaa ggaggagaaac aacgatggct caaacaaaat ttcaggcgac agcctgaaag 240
acctgtacaa gtcctttgtt tctgagtacc ctatcgagtc gatcgaagat ccatttgatc 300
aggatgactg gagcacttat gccaaactca ctgatgagat tggacagaaa gtgcagattg 360
taggagatga tcttctcggt accaacccca ccagggtcgc caaggccatc aatgagaaga 420
cct 423

<210> 11133

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-A12

<400> 11133

cccacgcgtt cgcccacgcg ttcggctgta tgctctctgc aagtatgctc agagacggca 60
gatagagaat ccagtatata aatcgactca attcactgaa aaaaaagcaa gatgaattca 120
ttagctgacg acacaaaaac agctaaaaaa agaaaagctc ttactcctct acaaggacca 180
acgtgctcgc ccgcgctgcc atcaccaagc caggtggagg acatcaacga aacttctgaa 240
aagcattatg cagccctaaa taacaagata tcagcactgg aaagcagaag agaaccagga 300

actatcacag atgcatcaga ttaattctga gttgggctta tgtcatgggtt acatctgccc 360
atgtgtccct gaatgctgca tgccatataa actgca 396

<210> 11134
<211> 181
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-G2

<400> 11134

cgcgcaaatt gcaccattaa attcatcgag aggccgtcga cagtgaagat agtttcatcg 60
tcaagtagca ccacccaccc ccgactcatc ctcgcaaccg tcatactgct ctccgtgctc 120
gcagctgcc aacaccagcgc cgacacctcc tgcattgccg ggttggccat cccatacaac 180

c 181

<210> 11135
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-G4

<400> 11135

gacgccacgc gttcgcggac gcgtgggcaa ctagcaacat ataaagctca atagtgtacc 60
aacaatggca ggcaaaagat tttgcctcct tatgtctcctt ggtctttctg caagtgtgctc 120
tacggcgacc attttcccgcc aatgctcgca agctcctata gtttcccttc ttcccccgta 180
cctctcacca gcggtgtctt cggatatgtga aaaccaatt cttcaaccct acaggatcca 240
acaggcaatc gcagctggca tcttaccttt atcacccttg ttctccaac aatcatcaac 300
cctattacaa cagttacctt tgggtgcattt attggcacia aacatcaagg cacaacaact 360
acaacaactt gtgctaacia accttgggtgc ctactctcag caacagcagt ttctttca 418

<210> 11136
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-G5

<400> 11136

gacgacacaa acctcagtta agagtgccat tgttcaagtt gagctgggcc attcaagcag 60
tgggacctca ctactatgg agttgacatt gataggaaga agaaaacccc tgctgcaaag 120
aaggataatg ctgaaggaca agaggttgat gcatcagctg acgaaacgaa aaagagcaac 180
catgtcacga ggaagcttga gaagcgcaag gagggactta cccttgaccc acacattgag 240
gagcaatttg gcagtggacg gttgctggca tgcatttctt cccgccctgt acaatgtggc 300
cgaactgatg ggtacatact tgaaggtaaa gagcttgagt tctacat 347

<210> 11137

<211> 149

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-G6

<400> 11137

caaccgcac ctgtttcgct ctgttagcgg agccatctcc tgaagctagg tcagtacggt 60
agggggcgccg gccctacact atccggacgc acttgatggt cggcagcatc agcgactact 120
ccatggccag tgtgttccaa tttatcatg 149

<210> 11138

<211> 180

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-G7

<400> 11138

cacgcattct aggttaagtta gaccattcat aaacagatca tttttactga aagccaacgc 60
aatgcacgaa gggtttcaac agataggggtg caaggactac gatgtactct atatggacaa 120
gctttacaga tagcactgca agaataagtc gcacaaacac aactacacac accacattaa 180

<210> 11139

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-G8

<400> 11139

ccggctcgac caccgtccgg agaagatggc aggggagctt taatttaacc tagagagaag 60
atcacacggt ggagtggctc cagaaagttg cacacgagta aaaggacggg cctcggacct 120
ccacaagatt ttgtcaacgt attttttgta tcaaaagaat cacattaacg agagagaacc 180
ctgtacttag caataaaaga ttatatcaac atatcttgct catgttaagg ggccgaattt 240
tttgtatttt aatccttttt tcgaaacaat ttcacgttta aaaaaaaca aa 292

<210> 11140

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-031-Q1-K1-G9

<400> 11140

cccacgcgtc cgggaggaac tgtggaatta tggcactagg agcaagtgag cagggtgggg 60
taatgaacgc atttggtact tcaatgggct tcgaacacct agctgtgcaa gccaacatgc 120
aacaacaagc gcttgcggcg agcgttttac aacaaccaat tgcccaattg caacaacaat 180
ccttgccaca tctaacaata caagccatca caacgcaaca gcaacaacag ttcctaccag 240
cactgagcca cctagccatg gtgaaccctg ccgtctactt gcaagagcag ctgcttgcat 300
ccaaccact tgctctggcg aacgtagttg caaaccagca acaacaacag ctacaacagt 360
ttctgccaac gctcagtcaa ctagccatgg tgaaccctgc cgnctacgta caacaacaac 420
aactg 425

<210> 11141

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-H11

<400> 11141

cccacgcgtc cgctcccgca ttgaccacaa gttcgacctc atgtacgcca agcgcgcggt 60
cgtgcactgg tacgtcgggtg agggatgga ggagggcgag ttctccgagg ctctgagga 120
tctggcggcg cttgagaagg actacgagga ggtcgggtgct gagtttgacg aggggtgagga 180

cggcgacgag ggtgacgagt actagacgct ctactggcgc ggcgtcgtcg ggcttgtgtg 240
 ccactgctat cctgtgatct gccctgagtg gctcctatcg tgttatgttt ctgtcggttc 300
 ttatctatct gtcgttgtgt ggttttacaac ttacgttgta agactttatt cccccgcttt 360
 gctactgggt tattaagttt ggcgttattg gtttctt 397

<210> 11142
 <211> 408
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-031-Q1-K1-H12
 <400> 11142

cccacgcgtc cgctcacgcg ttcgcccacg cgtccagggc aatgtcgacg ccagtgggtga 60
 ggacttctgt gtcgagccag ctgatgagag gaagcctttg cgtgctctct cggatgatgg 120
 ccttatcagg actacaacag ggtaccatgt ctttggtgcc ctcaaggag cattggatgg 180
 aggcctggat attgctcaca gctagaagag gtacgctgga ttcaagaagg acgacaagca 240
 cctgtatgct gatacccacc gcacgtacat gtatggaggc catgatgctg actacatgaa 300
 gaaccttgct gaagaggagc cagataagta ccacagccac ttacatgcgt acattaagaa 360
 gggagttgag gctgatgaaa tagaagcgt gtacatgaag gttcatgc 408

<210> 11143
 <211> 248
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-031-Q1-K1-H3
 <400> 11143

ggtgggttgg cttctcctcc cctcctttt cgggttcggg ttcgtgaggt ctgcgggggtt 60
 ctgtttcggg gtgagcggat cgatatggcc gcgtcgatgt tgataccgct gcttcgtcgg 120
 cggctctgcc tgggccacgg acgaccactc cctacacaac gccttcagca cctactgcga 180
 ggtcctcgag tccaaaatca tcctcgatcg gcagacgcat aagtacctcg gcttcgcgtt 240
 cgtcacct 248

<210> 11144
<211> 156
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-H6

<400> 11144

gcctgatggt caagtcatta ccttttggtc agaaaggttt aggtgcccgc gagagtctgt 60
tgcaaccgtg ccttgccgc atggaatcgc ctggcgctcca tgaggccacg tacaactcca 120
tcatgaagtg tgatgttgat atcaggaacg atttgt 156

<210> 11145
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-H8

<400> 11145

aaacacacca agcgaagcta cctatcaacg acttaacaac aatggctacg aagagattag 60
ccctccttgc gcttcttgcc ctttttgtga gcgcaacaaa tgcgttcatt attccacaat 120
gctcacttgc tcctagtgcc attataccac agttcctcgc accagttact tcaatgggct 180
tcgaacacct agctgtgcaa gcctacaggc tacaacaagc gcttgccggcg agcgtcttac 240
aacaaccaat taaccaattg caacaacaat ccttggcaca tctaaccata caaaccatcg 300
caacacacca gcaacaacag ttctaccag cactgagcca actagatgt 349

<210> 11146
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-H9

<400> 11146

ctcatggacg gcgcgatccc gccgggcccc gacgcgcagc tggagggccg cctagaggac 60
ctgccgggct gcccgcgga ggtgcagagg ggattcgccg ccaccctcgt cacggaggcc 120
gagtgaacc tggccaccat cagcggcgtc gccgaatgcc cctggattct cggcggcgga 180
acgatgccct ccaagtaact gcgaagagca tagtgcata ggaatgagct tgtagctagc 240

tcatatgtct gaataataag cacagcaaga agatgaatgc atttctcgga tcgctcatcc 300
 ggaacaataa ttaaagggga tccggatttg ctcttgtgat actaataacg attcctgcta 360
 tactcggaag cagctaggct cgtgcccatc caatgcatgc atagatctga cctaccataa 420
 aaa 423

<210> 11147
 <211> 408
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-031-Q1-K1-G12
 <400> 11147

ggaagattca ggtagcaagg atcctactgc aagtgcggc caagaaatcc tgatcgagga 60
 aactgaacca aatcagcaga gcaagcatgc gttaactggc tcatttgaga aagtcctga 120
 cattgagtct gttgggtctt ctgctgagaa atctgtcggc acaggatgatg acttgcttca 180
 atctggtaaa ggtgcttgcc actcagaaat accagtcgat atcatagctc agctgcaact 240
 tgaccctacc tctggaacgg cagatcatcc ggcaatctcc aaaggggcag acaattttga 300
 aggacaacat tatcatacaa cagatgaaag catcggagca ataccaagta catttgaacc 360
 tgctgttggt gccaaagttg tatcagttga tgtcactgct gaccttac 408

<210> 11148
 <211> 379
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-032-Q1-K1-A10
 <400> 11148

gggtgtcgag ggtgcaacac agcagtgaga ttctttttga actcatccgc tttctcgggc 60
 tccaacacag cagtgcagaga aagcggatga gttcaaaaag ggtgtcgagg gtgcaaccaa 120
 gtttctcctt agcaagctga aggacctcca attttttgtt ggtgagtcca tgaaggatga 180
 tgcgtctgtg gtattcgctt attacaagga tggtgccact aatccgacat tcctctatct 240
 ctctcatggc cttaaggaga tcaagtgcga ggcgtgcggc gaaattagtt acccatgttg 300
 ggtactatct atgtactatt attatatcca aaactatagt tgtcctggct gaattgaact 360

caaaagggtt tgtctgaga

379

<210> 11149

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-A11

<400> 11149

atcgtgggct gtgacctgtc gtcttcgtct ccggcagagc aaagcggcgg cgaggcggga 60

gatatagagg agagacgaga gcgggatggg gtacctgtgg aggggtgcggc tgtcttcatt 120

tgctgccggc gcggcgacgg cttcggcggc ggggttcttc ctctctaca aggaccacgt 180

gctcgcccg cgtgccatca ccagccaggt ggaggacatc aaggaaactt ctgaaaagca 240

ttatgcagcc ctaaataaga ggatatcagc actggaaagc agaagagaac caggaactat 300

caaagaggca tcagattaat tctgagttgg gcttatgtca tggttacatc tgcccatgtg 360

tttttgattg ctgcaggcgg tataaactgc agcattt 397

<210> 11150

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-E12

<400> 11150

atcagtttct tccattcaac caactggctg cattgaactc tgctgcttat ttgcaagggc 60

aattaccatt cagccageta gttgctgcct acccccagca atttcttcca ttcaaccaac 120

tagcagcatt gaactctgct gcttatttac agcagcaaca actactacca ttcagccagc 180

tagctgatgt gagccctgct gccttcttga cacaacaaca gttgttgccg ttctacctgc 240

acgctatgcc taacgctggc accctcttac aactgcaaca attgctgcca ttcaaccaac 300

ttgctttgac aaactcaaca gtgttctacc aacaacccat cattggtggt gccctctttt 360

agattgctta tgagttatag ttcaataatg aagttttttg gatgatgttt gtggc 415

<210> 11151

<211> 301

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-031-Q1-K1-E2

 <400> 11151

 ccggccggag ccacgcgttc gcgggccggc gccgccgtga cggaagggtg aggatgagca 60
 aggagcacga cgcgatagtc aggtcaacgg gtggagcgcg caccctaaga actacggccc 120
 tggctcccg cgtctgccggg tctgcgcgaa ccctcacggt ctgatcagga agtacgggct 180
 catgtgctgc aggcagtgtt tccgcagcaa cgccaaggac attggtttca tcaagtaccg 240
 ttgaagaggc cactgtgctg ctgtggagaa ctttctacat caaagaaatg ggttcttcat 300
 t 301

<210> 11152
 <211> 252
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-031-Q1-K1-E5

 <400> 11152

 gactgacaag cacagcaagg ctcgtgagtt cgcacacacc aagcaagcag gccagtaggg 60
 cgcattcggg tcacagggtc tccgtcggtt cccaacgcgc tttccccggc gccatggcca 120
 ggctggcgct agcgtccta ctgctgctgg ccgtggcggc atccgcgtgg gccggcgccg 180
 gcgcgagcca cctcgatctg ggcttgggct ttctatgtc cggggaccgc cggcgggaat 240
 gccgaggcac gg 252

<210> 11153
 <211> 299
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-031-Q1-K1-E8

 <400> 11153

 ggcagccaaa atatTTTTTc tttttatgct ctttggatt tctgcaagt ctggtacttc 60
 gaccattttg ccgcactgct cacaagctcc tatagcttcc cttcttcccc cgtacctctc 120
 accagcgggtg ttttcgggtat gtgaaaaccc aattcttcaa ccctacagga tccaacaggc 180

aatcgagct ggcatttac ctttatcacc cttgttcctc caacaatcat cagccctatt 240
acagcagcta cctttggtgc atttattggc acaaaacatc acgtcacagc gactacaac 299

<210> 11154
<211> 337
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-031-Q1-K1-E9

<400> 11154

acaatagtgt accaactatg tttaacnaaa atattttgct tccttatgct aagtgggtctt 60
tctggagggtg ctgctaccgc aaccattttc ccacaatgct cacaagctcc tatagcttcc 120

tttcttcccc catacctctc accagcgggtg tcttcagtat gtgaaaaccc aattcttcaa 180
ccctacagga tccaacaggc aatcgagca ggcatttac ctttatcacc cttgttcctc 240
caacaaccgt cagccctatt acagcagtta cctttggtgc atctgttggc acaaaacatc 300
aaggcacaac aactacaaca acttgcgcta agaaacc 337

<210> 11155
<211> 83
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-F1

<400> 11155

accattctac aactacaaca attattaacc ttacacaac ttactctgac aaacccaaca 60
acctcctacc aacaacacat tat 83

<210> 11156
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-F10

<400> 11156

gcacaatagt gtaccaacaa tggcagccaa aatattttgc ttccttatgc tccttggggt 60

ttctgcaagt gttgctaccg caaccatttt cccacaatgc tcacaagctc ctatagcttc	120
ccttcttccc ccatacctct caccagcggg gtcttcaatg tgtgaaaacc caattgttca	180
accctacagg atccaacagg caatcgcaac aggcatttta ccattatcac ccttggttct	240
ccaacaaccg tcagccctat tacagcagtt acctttggtc catttggtgg cacaaaacat	300
cagggcacaa caactacaac aacttgtgct agcaaactt gctgcatact ctcagcaaca	360
tcagtttctt ccattcaacc aactggctgc attgaactct gctgcttatt tgcaacaaca	420
atta	424

<210> 11157
 <211> 305
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-F11

<400> 11157

gagaatgcat gcagtgaagt tggagcccgt atgtctgcc tggacagctc tagcagaggt	60
gctggcgata tgcttgatcg tctcacgctt acttacaaca ggacacgcca agcatccatc	120
accacagagc ttactgagat tatatctggg gcacagccc ttgaaggata ggccaacgac	180
agtgatgatg ccgtgcgcct ttgcatattg caaaaatgat gttctacatc tatgggtgaat	240
ggctgggttt cataaatggg gatgatcaat atatgtatct tgcacatgat tagcaagttc	300
acgtg	305

<210> 11158
 <211> 412
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-F12

<400> 11158

gaagaacctt gctgaaaagg agccagaaaa gtgccagagc cacttaagtg cgtacatgat	60
gatgggagta gaggctgatg aaatacaatc gctgtacacg aaggaccatg ctgacatcac	120
gagccgatcc ttccattgat aagatcaacc gaagcagtca ccaattgagc gtaagaggta	180
caacccaag aagctgacat atgagcagat gaaggccagc ctaattgaaa ggctcaacca	240

actcaactgc tccggagggtg ctgatgacaa cgatgaggac gactagtaaa ggtaattgcc 300
atcgaagtag tgctatctca atccagcgat cagcaattgt gtactgtctt atgcggggac 360
ctgtagtact gcaataggca ttattgttta agtcttgcca agggaacaaa ac 412

<210> 11159
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-F2

<400> 11159

atgagttggt ccatacattt tagtttatgt ttgagattga accaagaagt gagcattatg 60
ctggaggggt ggactcgctt tgccgtgcag gaatggaaga gcgagcttat gagatcatac 120
aggggatgcc aatgagacct tccatttctg tctggggagc actacttggg gggtgcaaga 180
tgcattggaa gacagagcta ggaaggattg ctgctgacaa gttgtttgaa cttgacctc 240
aagatttatg caatcatggt ttgctctcta acatgcttgc atctg 285

<210> 11160
<211> 217
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-F7

<400> 11160

acacatcaca tgcagctcga gatttattta tagagaaaga ttccgttttt taagcacgat 60
caccacaacc agtcggctcc cctacctcc caccacaacc acacattcaa catcttctgc 120
cacaccaacc aaaactactg cctgaccact cttaacaaca ccaccatact ctcccccatc 180
aaccacaaat actaccacca acactaatac aaataca 217

<210> 11161
<211> 210
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-F8

<400> 11161

cacgcatgct cctttcgcca tcaaaccggg gtatgactta tgactgccat gctgctcact 60
tagatctgta tgaagttgac ggccggatat ccttcttcac gcctgtataa gatgttgaaa 120
ggatctgaat ggccgaacat caccctaacg accgccttcc tgtttcctgg gattgctatc 180
agtattccct tcataccttaa tgctctaata 210

<210> 11162
<211> 284
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-F9

<400> 11162

gcacaacagg acctactgcg ctgaaattgc tcacaacgtg tccactaaga agcgcaagga 60
gatcgtggag cgtgctgcgc agctcgacat tgtggtcacg aacaagcttg ctaggctccg 120
cagccaggag gacgagtagt ctggtttctt gtcttaacga cgaactggat gttgccattc 180
ctttctgtag gaaactactt tgcttgtgtc ttgttagtac tgaaaaccag agtcactcct 240
acctttttgc aatcagtagc tactaaaatg tggcagattc cact 284

<210> 11163
<211> 288
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-G1

<400> 11163

cgacgctcta tctctttcgt tgtattcttc gaaaccctag gagcgtgctg gaccggttgt 60
tgcgagggtga tggcgatgga ccctgacgcg gtagcgaagg ccttcgtgga gcattactac 120
cgaacgttcg acaccaaccg cgcggcgctg gttgggctgt accatgagac ctccatgctc 180
accttcaagg gccagaagtt ccagggcccg tccgtcattg ccggcaagct cggatctctc 240
cctttccagg cctgctagca tcatacttc accgttcact gtcaccca 288

<210> 11164
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-G10

<400> 11164

cccaggcctt gaaggttgcc aaggctgtga agtctgggtc agtaaagaag acgaagagga 60
tccgcacgtc cgtgacattt caccgccccca agaccctgaa gaaggctagg gaccccaagt 120
acccaagaat cagcactacc ggaaggaaca agcttgatca gtaccaaatt ctcaagtatc 180
ccctcaccac agaatcggcg atgaagaaga ttgaagataa caacactctg gtcttcattg 240
tcgacctcaa ggcagacaag aagaagatca aggctgctgt caagaagatg tatgacattc 300
aggccaagaa ggtcaacacc ctgatcagac ctgatggaaa gaagaaggct tacgtgaagc 360
ttacgcctga ctatgatgct cttgatgtgg ccaacaaaat cggcatcatc t 411

<210> 11165

<211> 184

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-E1

<400> 11165

atztatacca acaagcattt tacttattgg aatccagtag caacaataga gcaagcattt 60
ttaccaagat aggttccttc cttatgctcc ttgatattta tgcattgatt gctaactcca 120
caattcatcc cttaatgctc aaaaactcct atagcttccc ttcttaccct ataccttcca 180
tcaa 184

<210> 11166

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-G11

<400> 11166

ggaggcgatg cggatactgg agcaaggcgc ctgaaacctg cagggaggag gcgagggcgg 60
tgccgaagct gttgggttgc tcatgctcgc tatgtccacg ctgctttacc ggagtggaa 120
acgtcaagac gcagtggaaa agctcaaagc aaccaacaa gttgcccctt ctgcagtttt 180
tagagttgca gcgtgggaag cactaatggg attacacatg gaggcagggc aggagatgtc 240

atacttgatt tccccaaatg attcagttga tctgtcaatc aaatatgata gcaaattggtc 300
 tgatcaggac catcttaaat ttctgggttaa tgctgtcaga ggacttggtta cacttctgaa 360
 tggagaaaaca gaatcagctg cccagctggt cgatgggttg tgcagagact tttctagagg 420
 cgaaa 425

<210> 11167
 <211> 316
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-B2

<400> 11167

ccggttcaga atccgcggcg ggagccacgc gtgcgcttgt tgctggcagc aatgattatt 60
 cattatatgt ctatgatctt catgcaagca aagtgcatt acgttgatgt gtcatacat 120
 ctgatgtcaa tacagtagca tttgctgatg aaaccggcca tctcatatat tctggaagtg 180
 acgacacttt atgcaaggtc tgggacaggc ggtgtttgtc cgcacatgacag gctgccggag 240
 ttttgactgg acatttgcac gggataacac atattgacag tcgtggacat ggacgaagtc 300
 tcatatccaa tggaaa 316

<210> 11168
 <211> 187
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-B4

<400> 11168

ccacgcatcc tggcaccacc aatgatgggt tgttggtata acactgttga attataattc 60
 aatgatcgat ttttttggat gatgggcgag ccattccaca aataagaaag tacatttcta 120
 aaaaaaaaaa aaaaaaaca aaacaaaaaa aaaaaaata aaaacaaaaa aaaatataat 180
 acacaac 187

<210> 11169
 <211> 213
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-B5

<400> 11169

cccactcggt cgcagactca ttagaaaaaa aaaaaaatt aaaaattaaa aaaaaaaaaa 60
aaaaaaaaaa agaaaagaaa aaaaaaaaaa aaaaaaaaaa aaataaaaaa aaaaaaaaaa 120
aaaaataaaa aaaaaaacia aaaaaaacia cacaaaaaaa aaaaacataa aaaaaaaaaa 180
aaaaaaccta aacaaataaa aaaaaacaat aat 213

<210> 11170

<211> 176

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-B6

<400> 11170

gccatctctc atgcatcatc atcagcagct gctgtcacc caaggtctca accccatggc 60
catgatcatg gtcataaca tgtctatcat gattgtactc taccaatacc atctgcccac 120
ctaccgtacc aacccttgta gcatctctc ttccatttct acctactact gattca 176

<210> 11171

<211> 255

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-B7

<400> 11171

ggcgcgtggc cctgggtgaac tacgggtatg actatggccg tctcgttgtc atcgctgatg 60
tgatcgacca gaacagggca cttctggatg ccctgatat ggtcaggtgc caggtgaact 120
tcaagcggct ctacttact gacatcaaga ttgacatcaa acgtgtcccc aagaagacag 180
ccctgatcaa ggcgatggac gaagctgatg tgaagaccaa gtgggagaac agctcatggg 240
gcaagaagct gattg 255

<210> 11172

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-B9

<400> 11172

cccacgcgtc cgcggacgcg tgggtgctga cgctgggttt tcagatgtta caaagaatgt 60
cttggctgtc ctggcggaca atggcaggct gaaatatatt gaacgcattg cggagagatt 120
tgttgatttg actatggaac ataaggggga gatgaagggt gtggtcagga cagttatttc 180
actcaccaag gaggaggaga aagaactcaa ggaaaccttg caggatatcc ttggggaaaa 240
caaaactatt ttggttgaac agaagattga ctacagcatc atgggaggat tagtgattga 300
attcgggcag aaggtgcttg atatctcaa 329

<210> 11173

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-C1

<400> 11173

gctgcattga actctgtttc ttttttgcaa caacaactac cattcagga tcggtctact 60
gtctaccccg agcaactact tccattcaac caactggcag cattgaactc tgctgcttat 120
ttacaacaac agcaactacc accattcagc cagctagctg atgtgagccc tgctgccttc 180
ttgacacagc aacagttggt gtccttctac tcgcacgctt ctctaacgc tagcaccctc 240
ttacaactgc aacaattgct accattcaac caacttgctt tgacaaacc agcaggcgtc 300
taccaacaac cca 313

<210> 11174

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-C11

<400> 11174

ggccaacaac aagctggaca ggagcgggtca caatcaggct ctggtgcagg caatgtcggc 60
ctcaacacct tgatgaacat gttcagcggg cttggtgctg gtggtggcct aggtgttcca 120
aatgctccta atgcaccgcc agaagaactg tacgccacac aattagctca gctccaagaa 180

atggggtttct ttgacacaca agagaacatc cgagccttgg ccgctaccgc tggaaatggt 240
catgctgcag tggagcgact tcttggaat atgggctaata agaataatgat gatcataact 300
gtactcagat attgtgattt ttattcatcc ttgatca 337

<210> 11175
<211> 259
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-C12

<400> 11175

gcgttcggcg gagtgttccg tcgctggagg ctgggcggcg cggtcgctgc tgccggtgct 60
gaagcccgtg gaggagtgtt ggcagccggc ggacttcctc ccggactcct cgtccgagat 120
gttcgggcac cagggtccgc agctgcgcgc ccgcgccgcg gggcttcccg acgagtactt 180
cgtcgtgctc gtgggcgaca tggtcacgga agaagcgtg tccacgtacc agaccatgat 240
caacacgctt gacggggtc 259

<210> 11176
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-C2

<400> 11176

ccggttcgga atccgcggcg ggacgccacg cgtgcggagc gattgcggcg gcggaagtat 60
agattcgatg gggcactcca acgtgtgggg ctgcacccc aagaactacg ggcccggatc 120
ccgcgtctgc cgggtctgtg cgaaccctca tggactgatc aggaagtacg ggctgatgtg 180
ctgcaggcag tgcttcgcga gcaacgcca ggacattggc ttcacaaagt accgctgaag 240
tcagctgggc gggctatctg aatgccatct cttggacagt gtagtagaag cgatgccaca 300
attttaatta ctgtcattta gatgttcctt tggagactct gctatttaag ttcccat 358

<210> 11177
<211> 206
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-C6

<400> 11177

atgacacaaa gccttgactg aagctgtctt gttcaactga aaatgtacac attgttaaga 60
tctgttgaat ctgtttcttg acctcccacc ataatacaaga tcatcactga attttttact 120
aaagagccaa ggcaaaccat gaatgcaact gagtgtgttg cacaacgatg tgctcttcaa 180
tatgctattc tcagtcccac tttcaa 206

<210> 11178

<211> 160

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-C8

<400> 11178

gccactcatt cgggcatggg ctggcaccac gactaggctg atccggactt cggttcctgc 60
caggccaagg agctttctgta gcatggcgag aacgtgctgg ccaacgaacc cgtgggtggtg 120
aagagaggcc agcacatcgt ggaggtgaac ccccagggca 160

<210> 11179

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-D10

<400> 11179

caagaaacat cggttcaaca atcttctata gctgccccta cggctggatt tccatctgaa 60
gctactgcaa agcaacaagg aaccagtggg attcaaggag cagcttcttc tactgacagt 120
aaattcagtg gcaggaaaga acttccagcg gatattctta ctgcactata tccaccatca 180
actccaatga tgcttggttg gcagagagcc cccatttttg gaatgggata cgccgtgcaa 240
tatccacctg gagtgttcca gggaatgcaa gcatatcctc agcctacata tcagcaacct 300
gtatattccc aacctgcata ttcccacccc caacctgtga aagcttcaaa cccttttgat 360
cttggaatg ggccagctcc aactcaagct cacatgcccc catctggacc accaggagta 420

<210> 11180

<211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-D11

<400> 11180

gcaaaataca tagtgaagta cactagcaac atcttagcac caatgggagc caagattggt 60
 tccctccttg cctccttgc tctttcagca agcgctgcta cctctactat tattccacaa 120
 tgctcacaac aatacctctc tccggtgaca gccgcgggat ttcaacaccc aactatacaa 180
 tcctacatgc tacatgagggc catcgtagca agcatcttac ggtcattagc attaaccctc 240
 caacagccat atgccctatt gcaacaacca tccttagtgc atctgtatct ccaaagaatc 300
 gcgacacaac aactacaaca acagttgcta ccaacaatca atcaagtagt tgcagcgaac 360

cttgctgctt atctccagca acaacaattt cttccattca atcaactagc tggggtgaac 420
 cctgc 425

<210> 11181
 <211> 356
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-D12

<400> 11181

ggcacttttg cgatacatcc actcgggatc aggaatcaag aaacgagaat atggggaggg 60
 ccctttgcc aatagcattgg tagagaacag tggaaggtgc aagactaacg agcatgggga 120
 gaagatactt ccggatggaa ctccgtgggt tccaaaactg atgaaagaaa ttacttgcca 180
 tatctcaaac tggagcaagc ccattcatgt tgatcagaac ttaattgatg gttcaaacc 240
 taacaatcgc tggaagatgt tcataccaat tatacttgct gtggagtact tcttggtagt 300
 aaaacgaatc cggacggcga tccatgcaga tatcgacat gggaaggtgg atgact 356

<210> 11182
 <211> 231
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-D5

<400> 11182

cgcggtccgtg gacacgccga tccctctcct cagggttgat ttccaggcta acatcacctc 60
gcagggccgg ctatgttggt gctgcctacc tgcttgctat tctcgtggg aatgccagcc 120
cctccgttca ttatttgact ggcattctgg actcagctga ctaagaagat gacaatgaat 180
agatggaact gctgctgtcc caactgacct gtaaggacat taccgatctc a 231

<210> 11183

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-D9

<400> 11183

aatacccggc cggagccacg cgttcgcagg catagtgaag tacactagct acattttatc 60
accaatggga gccaagaggg ctagectact tgccctcgtt gctctttcat caagcgctgc 120
tacctcgact tttattccac aatgctcaca acaatacctc tctccggaga cagccgcgag 180
atttcaatac ccaactatac aatcctacat ggaacaagag gccatccaag caagcatctt 240
acggtcatta gcattaaccc tccaacaacc atatgctcta ttgcaacagc catccttagt 300
gcatctgtat atgcaaagaa taggggcaca acaactacaa caacagttgc taccaacaat 360
caatcaaata gtagcagcga accttgatgc ttacctagag caacaac 407

<210> 11184

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-H12

<400> 11184

agactaccga gcagattgca tgtgatgtgc agatgggctg ccagcgctgg tactgtccat 60
cgtgcctctg ccgtgtctgc ctgtgcgaca cgtacgatga ccagatcatc ctgtgcgact 120
gctgcaatca tggctatgat ctctactgac tcagtcctgc aagaggaaca gtgctcaatg 180
tgcatcgaa ctgctaaccc tgcaaggagc cgatggagaa ggagaacagg atactgatgc 240
tccacacgaa ggattactat gaagacatcc tgaagagtgt cgagttgcat gtaccgaact 300

tgctgcttaa ggccgcgaaa aacgtgaagc gcgatgagga gg

342

<210> 11185

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-H2

<400> 11185

cgcaattccg ggctacgcgt acgagctgtt gcagatccta ttgacacaac catctgactc 60

tctaccttca tttttttgcg gtttttgggt tgcctgtgag gtgttgttgt tcttgagtat 120

cttgtcaggt aacatgatat ttcataatcta ctcttggaata taatagcttt tgtatatggt 180

gaaccatgca caattaaaca tagtggctgg gggagggtgtt cttatttctg aattgattca 240

agacatcgat actcccttag ccaagggtga aagggtctata aagccaagaa gacgaagaag 300

ggtgaagaat tcagggttttc ggaagcaata gtgaagacta ttttttggct tctctttgca 360

atatgcttta ttgggattgg atcctcgatc actgctatta ataactctaa 409

<210> 11186

<211> 231

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-H3

<400> 11186

tctacctcat tccaaaaacg gggtctgtaa ccattgacat ttctccttat caccgactct 60

cgaacaaatt cacataatac ttcaaatacca ctctcagaaa ctttaagacat acaataccaa 120

gcaccataca caaccaaacc atactcccaa agtcaagcct ccctactcta ctatggactc 180

actaaccact gataccata tacaatgaca ctacatccca attactcaac a 231

<210> 11187

<211> 427

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-030-Q1-K1-H4

<400> 11187

tccgaggcta cgacgtacga tcagtgcagc ccgacggcaa cgccttaatg ttggcctcaa 60
 tgccagtctg tgcggcagca gtgttgccag cagctaaggc aggtggagcc gcagcaccgg 120
 taccaggcga tcttcggctt ggtccctcca gtccatcctg cagcagcagc cgcatagcgg 180
 ccaggctcgc gngctgttgg cggcgagat agcgagcaa ctgacggcga tgtgcggcct 240
 gcagcagccg actccatgcc cctacgtctg tgccggcggt gtccccact gaagaaacta 300
 tgtgctgtag tatagccgct ggctagctag ctagttagt catttagcgg cgatgattga 360
 gtaataatgt gtcacgcatc accatgggtg gcagtgtcag tgtgagcaat gacctgaatg 420
 aacaatt 427

<210> 11188
 <211> 413
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-030-Q1-K1-H5
 <400> 11188

gggagaggct ttacccttga ggagttgaag gctgcgggca ttccaaaaag gcttgcctca 60
 accattggca tttctgtgga tcaccgccgc aagaacaaat cccttgaggg gctgcaggcc 120
 aatgtccaga ggcttaagac atacaaggcc aagctgggta tcttccaag gcgtgctcgc 180
 aaggtcaagg ctggtgactc tactctggag gagcttacca ctgctacca ggtacagggt 240
 gactacatgc caattactcg cggtgagaag cgctctgtag aggttgtgaa ggtcacagat 300
 gagatgaagg cgtttgccgc ctatggcaag ctccgccttg agcggatgaa caagaagcac 360
 ctcggtgccc gccagaagaa ggcagctgag gcagagaagg aagacangaa gtg 413

<210> 11189
 <211> 387
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-030-Q1-K1-H6
 <400> 11189

atcggatcag tctctaggat actggatagc ataataagc tttgcttgca ggtctgctgg 60

agcatagagc aatatgaaac tcggccaaat atttctgaga ttgatcacat aactgaggag 120
 ttcaacaaga agtccaattc gctgtacact atcttgagga gtagtcgcct cgcgggtagt 180
 cagagagcac ctttcctgag gcaatttctg atgaggctaa attttaactc tttctttgag 240
 accaccgcaa ggggagtgat gaattcagga aggctgcgac caatcactgc aggtgctcag 300
 ctgtaacggt gatgggtatgt ttgggggtag tgctgcagca agagacaagg gaggagtttc 360
 tggtagttat gtaaattatg atcggat 387

<210> 11190
 <211> 432
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-030-Q1-K1-H7

<400> 11190
 ccttgatgga gctaattgtg aaataagaga ggaggttgga gaagataatt tcttcctgtt 60
 cggtgccaaa gccgatgaag ttgctgggct gaggaaggat agagaaaatg gtctgttcaa 120
 accagaccca cgttttgaag aagccaagca gtttataagg agtggcgctt ttggcagcta 180
 tgactatgaa cctctcttgg attcccttga agggaattct ggatttgggc gtggtgatta 240
 tttccttggt ggctatgact tcccaagcta catcgatgca caggatcggg tggatgcagc 300
 ctacaaggat aagaagaagt ggaccaagat gtccatcttg aacacagctg ggagtggcaa 360
 attcagtagc gatcggaaca tcgccagta tgccaaggag atatgggaca tcaaggctag 420
 ccctgtcgtg tg 432

<210> 11191
 <211> 376
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-030-Q1-K1-H8

<400> 11191
 cgcaacatca ccgtcaacga ggcccagtcg cgcggcggcc gtggaggcgg cggtggtggg 60
 tactgtggtg gccgttgagg ctgctgctac ggcggtggct ggcgccgtga tggcggtggc 120
 ggctacggcg gtggctgcag atacggtggc ggctagaagc tactgtggtt gtggccagcg 180

ctacgtgtgt ggcaaccgtg gggcggtta cggcaactcc gactgtaact ggaggaactg 240
 agcgggtgggg cccgtgcggt caagttatct ctgttcgcta ccgatgatgtt taccctagtc 300
 cagatgggtt atcttcgttc gtgtcgtgtt agttgctgcc catctgcgtt tttgattgca 360
 aggtcgtctt gtgtca 376

<210> 11192
 <211> 399
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-030-Q1-K1-H9
 <400> 11192

cggacgcgtg ggcttgatct tggccattga agcaccgata aacttcgcca actccaacta 60
 cctgaatgaa aggattaaaa gatggataga ggaagaatct tttgaacagg ataaacatac 120
 tgaactccat ttcataatct tggatctgtc agctgttctt gcaattgaca caagtggcat 180
 agcgttcctc attgacataa agaaatcaat agagaaacgt ggtctggagc ttgtgcttgt 240
 caatccaact ggagaagtca tggagaaaat acaacgtgca aacgaggctg aaaactatct 300
 taggccagat tgcttgatc tgaccactgg cgaagcaatc gcttcacttt ctgcacttgc 360
 caagatgaca aaaccctaaa tggattgctg aattgtcat 399

<210> 11193
 <211> 408
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-031-Q1-K1-A10
 <400> 11193

cccacgcgtc cgggtctatcc acttgatgct gtctacgatt cccctgatga tgtgcctgaa 60
 gatgtcaaat cgaacaaaag atatgcagg gcatcaaact ggacagtaaa ggaagttggt 120
 gaatcagtga ggaatgattt tggcagcatt gacatactag tgcattctct tgctaattggc 180
 ccagaggtaa cgaagccttt gttggaaacc tcaagaagag gctatcttgc ggcaatttct 240
 gcatccagtt actcctatgt ttcattgctt cagcacttcc ttcctataat gaatcccggg 300
 ggtgctagca tctctctaac atacattgca tctgaaaggg cgattcctga gtatgggtgg 360

gggatgagtt ctgctaaagc agatctagag agcgattcac ggttgctt

408

<210> 11194
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-A11

<400> 11194

cccacgcgtc cgcggacgcg tggggccacc tgaggttctc aaggaaaggc ttgctgggat 60
ttctgaaact gctgctatct ttgctggtgt tgatgtcacc aaggagccca ttccagtttt 120
gcctactgtg cactacaata tgggcggtat tccaacaaac taccatgggg aggtagtgga 180
tatcaagggt gataatccag atgctgttgt tcttgggtcta atggctgctg gtgaagcagc 240
ctgtgcatct gttcatgggt cgaataggct aggcgcaaat tcgcttcttg acatagtgtg 300
ttttggcaga gcttgtgcaa acagggtagc agatatttct aaaccagggt agaagcagaa 360
acctctggaa aaagatgctg gagaaaagac cataacctgc ttggacaagc tga 413

<210> 11195
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-A12

<400> 11195

agaccaacta gcaacataga aagcacaata gtgtaccaac aatggcagcc aaaatatggt 60
gcctccttat gctccttggc ctttctgcaa gtgctgctac ggcgaccatt ttcccgaat 120
gctcgcaagc tcctatagct tcccttcttc ccccgtaact ctcaccagcg gtgtcttcgg 180
tatgtgaaaa cccaattctt caacctaca ggatccaaca ggcaatcgca gctggcatct 240
tacctttatc acccttggtc ctccaacaat catcagccct attacaacag ttacctttgg 300
tgcatttatt ggcacaaaac atcagggcac aacaactaca acaacttggt ctagcaaacc 360
ttgctgcta ctctcagcaa cagcagtttc ttccattcaa ccaactaggt tcattga 417

<210> 11196
<211> 299
<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3059-031-Q1-K1-A3
 <400> 11196
 cgacccacgc gttcgatgaa gatagattgg tagtgaggaa cattacacga ttagtggcac 60
 aagattatat ttgaatagaa ggattgtatt ttggtgagac aattctcatg ttgcaagatt 120
 agaggcaata tgggtttcttc ttgcttatgc ttgtgcttac aacattaaac tctaccaa 180
 ggatgtaa at gacgtttttt ctaa atgcta agattagtga actagtgtat gtggagcaac 240
 ctctcgggttc tgaggacccc caaagcattt ccacatgttc aagcttttcta aaccttcta 299

<210> 11197

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-H11

<400> 11197

atgagcatgt gctgcttaag taaccattgg caatatgctt tccttttttt ggctccctgt 60
 gggggaatgt ttccgcaaac aatgtgggct gctgagttcg aaggcatatc tggcgcacat 120
 tgaacattgg tgcacatggg gatgactgaa tatgtgcagc atgtgcacca atcttgcattg 180
 tgcattacat atgttctcgc tgagtaatcc acctgtggcg aatatataaa gcagtcattt 240
 ctcagtact ggagaaatca tggagaaaat caacgtgcaa acgaggctga aaactatttt 300
 aggccacatt gcttgtatct gaccactggc gaaacaatcg ctttactttc tgcacttgcc 360
 aagatgacaa aaccctaaat ggatt 385

<210> 11198

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-B10

<400> 11198

cctgcattgg ccatcatcgc aaaggttgaa gacgtcgcaa aagcactgaa tctcagggga 60
 aggaagaagg acaacaacac tgtcagcatt caaggaggga aggagggggg caatgggtgtc 120

cttaagtttg acacgcaa at ctttgagatc acaccatcct gccatctcgt tcagattaaa 180
 caaaccagtg gcgatctact tgagtacgag aaactgttgg aagagggcat ccgaccaggg 240
 ttaaaggacg ttgtctcggc ctggcataga gatgatctgc agcagaagta gcttcggatg 300
 tctcccgtag attctgttct agtacatttc attccttatt tttttagcag ctacattcct 360
 tttttgtatt ggtgggtgata tgaaccatta gcttgtgttt tggtagtaa taat 414

<210> 11199

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-F4

<400> 11199

agatgacatt atctgactcg atccagcaac tatggcatag gacttctcaa attctatgcg 60
 tgctgcacat taacaattct gaaacctaac tgcaaggaat acaatgccat atgtgaaata 120
 atcacttagc tagggcaata tggaacacat gagcttcatt agatatgacc tactggctat 180
 tattggggag tcagcgtata gtgcaagtgc tttagtgtc atgtatgac attttgctag 240
 cttatcaact cgttgttcaa gaagaaggct cgactttctg cggaaagctg gtattatcat 300
 gatgatgac gccacagatc ttat 324

<210> 11200

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-F5

<400> 11200

ggtgggttgg cttctcctcc ccctccggtt cgggttcggg ttcgtgaggt tctccggggt 60
 tcggtttcgt gggtgagcgg atcgagatgg cggcgtcgga tgttgagtac cgctgcttcg 120
 tcggcggcct cgctggggcc acggacgacc actccctcca caacgccttc agcacctacg 180
 gcgaggtcct cgagtccaag atcatcctcg atcgggagac gcagaggtcc cgcggcttcg 240
 gcttcgtcac cttctccacg gaggaggcga tgcggaacgc catcgagggc atgaacggca 300
 aggagctgga cggccgcaac atcacgtca acgaggccca gtcccgcggc ggccgtggag 360

gcggcggctg tgggtacggt ggt

383

<210> 11201
<211> 276
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-F6

<400> 11201

ccgaggagtt cgcccggtggc atgaaggaag acctgccctg aacttgttct tgctagctta 60
ttatatactg ctgatgatca tcttgagccc tggctgcagg gagatgatga atggtgacgt 120
aaacatgctt ctgtttgttg ttacttttgg ttgtattttt tttgggttca ctttatcttg 180
gtcaatacgt accacattag atcacagcaa ccaaattcga tcttaatttg taccatttga 240

tatgagaccg agacaataaa aaaggttata ctgtcc 276

<210> 11202
<211> 433
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-030-Q1-K1-F8

<400> 11202

cccacgcgtc cggcaaagcg gcagtgcgta gagaggatcg tcgaacagaa cagcatggag 60
atggtcatcg ttctcgtcgt gtgcctggct ctgtcagctg ccagcgcctc tgcaatgcag 120
atgccctgcc cctgcgcggg gctgcagggc ttgtacggcg ctggcgccgg cctgacgacg 180
atgatgggcy ccggcggggt gtacccttac gcggagtacc tgaggcagcc gcagtgcagc 240
ccgctggcgg cggcgcccta ctacgccggg tgtgggcaga cgagcgccat gtaccagccg 300
ctccggcaac agtgcgtcca gcagcagatg aggatgatgg acgtgcagtc cgtcgcgcag 360
cagctgcaga tgatgatgca gcttgagcgt gccgctgccg ncagcagcag cctgtacgag 420
ccagctctga tgc 433

<210> 11203
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-F9

<400> 11203

ggtgggttgg cttctcctcc cctccggtt cgggttcggg ttcgtgaggt tctccggggt 60
tcgggttcgt gggtgagcgg atcgagatgg cggcgtcgga tgttgagtac cgctgcttcg 120
tcggcggcct cgcttggggc acggacgacc actccctcca caacgccttc agcacctacg 180
gcgaggtcct cgagtccaag atcctcctcg atcgggagac gcagaggtcc cgcggcttcg 240
gcttcgtcac cttctccacg gaggaggcga tgcggaacgc catcgagggc atgaacggca 300
aggagctgga cggccgcaac atcacgtca acgaggccca gtcccgcggc ggccgtggag 360
gctgcggcgg tgggtacggt ggt 383

<210> 11204

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-G1

<400> 11204

gcctgcagca gtagcggaac aattccaaag catccagagc atccccttct gacacatggt 60
gacctcattg agaagttgct caactacaac accctagaga agaccgagac aagttaagcg 120
agcacatcat gtcctaaaaa cactactgtt tggcagtatc atagagctta ggtagtatgt 180
tgtctcttct ctatcagtag aaatgggttg tgagtgtgaa catgcttttc aaggactttt 240
catgcgacag tgcttggtgc cacctatgca acgatgttgg atattttaag tgatataatt 300
gct 303

<210> 11205

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-G11

<400> 11205

cggattcccc ctcgaccagc gtacggaggc tatgaacaag cgctgaaggc tctgacgta 60
ttatgctgca cgtagttggg acgggcatcc gatgtttggt ccactctaag gcgttggttac 120

gtgactatag tcgtgatctt agatctgcac ctaaagttcc tgttgacaca accgtagctc 180
 gtgtaaagcc agggagagtc tttggctact gccttagcat tctcgtggac tcccctttgt 240
 gacctctaca gcttgagtac gcctttaatg ataggcaatc acgcatattt cactttgctg 300
 ttgtctaccc acatatgaca tcatattgca cacattctga ttcaatcttg ttcttctgag 360
 cattttggtc tgattgaaaa tcatgacata cttacattt ttt 403

<210> 11206
 <211> 434
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-030-Q1-K1-G2

<400> 11206
 aggaaagtga accacccgct taaattaaga atgggggatt ttggccccta aaccatggga 60
 aggagccttt tccgttgctt ttgaaggcct aattgcaatc gatccccaag ggtggattta 120
 aaacactgga taagtgcctg gtccgtgagt accgaatgac catgaatgga atctcaaagc 180
 aattntctca tgaattctgc gagggagtca gagcacgact agtcgacaag gacttcactc 240
 ctaagtggga tccnctgcc cttgagtatg ttacgaatga catggttgac gcatacttcg 300
 cacctcttgg cgattcggag cctgagttga agctgcctat agaatcgaga gaggcatttg 360
 tatgatcaca natcattcca agaaccgat cattgcaagt accggactgg gacctgataa 420
 acgtgttata atct 434

<210> 11207
 <211> 146
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-G3

<400> 11207
 ctttgacaaa cccagcagcg ttctaccaac aaccatcat tgggtggtgcc ctctttttaga 60
 ttgcttatga gttatagttc aataataaag ttttttgtct gatgtttgtg gcttcccaga 120
 aataagaaag tacatttcta gattct 146

<210> 11208
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-G4

<400> 11208

cgcggtatta gtatttgagt tgatttgtgg aactcacgaa gctgtgtttg cttagtatcg 60
tggaataacg agaagcgctg gggcttttgt actatatact cacccaaatt ttcattgtgtg 120
cttgacgcgt gataagttcg gagataacac gctcatagtt taagacctgt ctgactactg 180
gcagaacatg acatcatttg attttctgtt catagttggg aaatcttgtt ttgtttcgga 240
ctaattgctt ttccatggat ttttaacgaa tacatttagg gtctgttctt ctaattgttaa 300
ttcatgtgga ttggaagagg ttgaggcctt cegtttctcc agcattagat ccagaattgt 360
tccagctgat caaatcttat atattctaga taagc 395

<210> 11209
<211> 433
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-030-Q1-K1-G5

<400> 11209

caagaagatg aacgacatct acggcgactg gccggaacag gactgagagc gcgtacgagg 60
catcacctgc tcgatcgaag ctaccatgtc taccttcttg cctttgatca ccgtgatcga 120
caacatcaga ttgttacagg ctccatatagc ttnccttctt cccccgtacc tctcaccagt 180
gttgtcttca gtatgtgaaa acccaattct tcaaccctac aggatccaac atgcaattgc 240
atcaggcatc ttacctttat cacccttggt cctccaacaa tcatcagccc tattacagca 300
gttacctttg gtgcatttat tggcacaaaa catcagggca caacaactcg tgctagcaaa 360
ccttgctgcc tactctcagc aacatcagtt acctttgggt catttggttg cacaaaacat 420
tatggcaciaa caa 433

<210> 11210
<211> 390

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-030-Q1-K1-G6
 <400> 11210
 ggagagcacc agttggagaa tgacatttcg gagtacataa agaaggagtt cggcaagaac 60
 cacggcccaa cctggcactg catcgtcggc cgcaacttcg gttcctacgt gacgcacgag 120
 acaaactact ttgtatattt ctacatcgac tctaaagctg tcttgctatt caagtctggg 180
 tgattgtcgc agccaataga gtcaaccttg catgcctaca tcttctttct ctcgtgtatg 240
 ctccatcccc ttccctttcc cctcagagtc gtctgcagcc aaacctggaa accggtaatc 300
 ttatgaacct gcatgttgat gtatcaacaa cggattattc ttcgcatgcc ataatgtgag 360
 atcaagttgc atcttaatta tggctgaaat 390

<210> 11211
 <211> 254
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-030-Q1-K1-G8
 <400> 11211
 accgtccgga ttcccggtcg cccacgcgtc gccacgcgt ccgtttttcc cttctaagtt 60
 cctagcatga ctgtttgggt cagatgagat cagctggggg aaacaaaacc tgtgggggtt 120
 cctggcatct ttgtttgctg tagtcagttg atttaatgaa ctccgaaatg tctcatggag 180
 gaaaattttc ggtcgcctgt gtagcgctct gttaaagtag caaccttcac aataattcaa 240
 gctcggtaga attc 254

<210> 11212
 <211> 418
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-030-Q1-K1-F3
 <400> 11212
 caagagtata ttcaatgatg agcactttag gtgctcctta tcacctgatt ctcaaacagg 60
 agatagtgga agtgaagaat caactgatga cgaaactgtg gataccaagg gtaatggatt 120

tcattgatgcg gaaaatgatg tagatcaaga attagatgat gccgagcgaa tgctgagtgg 180
aaaattcact gaaaccagtg caagtgcctg tgctgacctc tatgaccaca aggaagttaa 240
tggcaatagt tcagacactg agctctttgt tgaggatcac acatttgaat caaatgtaga 300
tttaaagtat gctcccttaa gtcgtttaac agaaaatgga aagggtccat caaatctgat 360
gtccgctcat gaaactccat tatcagtggg agagattctt ctgtctttgg atgctgga 418

<210> 11213
<211> 380
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-030-Q1-K1-H10
<400> 11213

aagtatcttg cctccttatg ctccttggtc tttctgcatg tgctgctacg gctaccattt 60
tccggcagtg ctcaacagct cctatagctt cccttattec cccgtacctg tcaccagtgc 120
tgtcttcagt atgagaatac ccaattcttc aacctacat gatccaacat gcaattgcat 180
caggcatctt accttcatca cccttggttc tgcaaacctc atcatcccta ttacagcagt 240
tacctctggt gcatatattg tcacaaaaca tcatggcaca acaactcgtg ctagctaacc 300
ttgctgccta ctctcagcta cgacagttac ctttggtgca tttgtaggca ctgaacattg 360
cggcacaaca actacatcaa 380

<210> 11214
<211> 351
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-030-Q1-K1-D8
<400> 11214

cggacccata cgcccacgcg ttcactttct gcctactata agcaccacaa ggggtccggc 60
attcaaccaa ctacactgat tgaactcata tccttatttg aaacaccaac taccattcag 120
ccagctaaac atcaacctac ctaaaactaa ttctttttca tctaacgcaa cattgatcaa 180
cgaactctac tgcttattac actgcagcaa caactactac catacagcct aatagctgac 240
ctgagccctg atacattcat gacacaatat cagctcattg ccgctctacc atcacgatct 300

cgactaacga attgcaccac ttttacacac tgcaacaatt agcttccatt a

351

<210> 11215

<211> 118

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-E2

<400> 11215

ttcccgctct acccactcgt ccgaaaaaaaa aaaaaaaaaa aaaaaaaaaat ttttattaaa 60

aaaacaaaaa aaaaatcaaa ccgcaaaatt tcaaacttaa caatacaaac accccaat 118

<210> 11216

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-E3

<400> 11216

acgatatcaa tatgggatat acgtacaggg aagaaacctt gtatttctgt caaagctgat 60

gaagccgatg tgaatggtat ctcatggaac aagcttgcta gctgcatgat agcttctggg 120

tgcgatgatg gcagtttctc agttcgtgat cttagatcaa ttgaggagga ctcgttggtg 180

gcacattttg agtaccacaa gaaagcaatt acatctatcg agtggagtcc acatgaagca 240

tcatcattag ctgtaacatc tgaagatcat caactaacia tctgggacct ttcactggaa 300

agagatgcgg aggaggaggc tgagttcaga gcaaagatga aggagcaggc aaacgcacct 360

gaagatttgc cccacaaact tctctttgct catcagggcc agagagactt gaaagaactg 420

cactg 425

<210> 11217

<211> 278

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-E4

<400> 11217

cctcagtatg ccgaggccca ctgcgatacc tgtcgcagac ccatggctgt cgaagcgtgt 60

cgcggttgga gtctctgctt ccttctcggc ctcaggtttc attccagatg gaacaattgg 120
 accctgcacc agctagtata cctcatagct ctgcgttggc accacttccc ggaagagggt 180
 gcttggttga ccaagatgtg aactctgac ctaaaatca tctcttggtt ggtgttagta 240
 tagactcgca gtcactgcta atgcaagggg gcatttct 278

<210> 11218
 <211> 419
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-030-Q1-K1-E5
 <400> 11218

cctgctggac tggactaca cggcgaagct gtcggatttc gggctagcga aggctggacc 60
 tggagaagac gagaccacg tgtcgaccg agtcatgggc acgcagggt acgccgcacc 120
 cgagtacatc atgacagggc atctaacgac caagagcgac gtgtacagct tcggcgctcg 180
 gtccttgag ctgctaacgg ggcggaaggc gttggacaag aaccggccgc cgcgagagca 240
 gagcctggtg gaatgggccc ggccatgcct gcgcgacgct cgcgggctgg agcgcgctcat 300
 ggaccggagg ctgccgcgcc ccaccacgcc caccgagca gcccaaaagg ccgccgggat 360
 agcccaccag tgcctcagtg tcagcccaa atcccggccc caaatgtccc acgttgtag 419

<210> 11219
 <211> 437
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-030-Q1-K1-E6
 <400> 11219

catgttcagg atatgatcac tgctggaatg gacacaacag tcattctcagt cgagtgggcg 60
 atggcagaac tggtcaggaa ccctaggggtg cagaagaagc tgcaagagga gtcgaccgt 120
 gtggttggcc gtgaccgct catgctagag accgacttcc agaacctccc ctacctacag 180
 gccgttgtca aggaatcact ccggctgcac ccgccgacgc cactcatgct cccgcacaag 240
 gccagctcga acgtcaagat cggaggttac aacatcccca agggcgccaa cgtgatgggtg 300
 aacgtgtggg cgggtggcgc tgatcccaag gtctggagca acccgctgga gtacagaccg 360

gagcgcctcc tggaggagaa catcgacatc aagggcagcg acttcagggt gctgccgttc 420
 ggtgctggcc ggcgtgt 437

<210> 11220
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-E7

<400> 11220

cggacgcgtg ggctagcaac atagaaagca caatagtgt ccaacaatgg cagccaaaat 60
 attttgcttc cttatgctcc ttggtctttc tgcaagtgtt gctaccgcaa ccattttccc 120
 acaatgctca caagctccta tagcttcctt tcttccccca tacctctcac cagcgggtgtc 180

ttcaatgtgt gaaaacccaa ttgttcaacc ctacaggatc caacaggcaa tcgcaacagg 240
 catcttacca ttatcacctt tgttctctca acaaccgtca gccctattac agcagttacc 300
 tttggtccat ttggtggcac aaaacatcag ggcacaacaa ctacaacaac ttgtgctagc 360
 aaaccttgcg gcatactctc agcaacatca gtttcttcca ttcaaccaac tggctgcatt 420
 gaactc 426

<210> 11221
 <211> 394
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-E9

<400> 11221

gccatgccct caggcgacaa tccccataat ggcttcaact ttgggaacca gccctctgtt 60
 ccgtcagggtg gattcaactt tggctgaaga tgcccatttg gaatggccga tgtgccatta 120
 tgccttggtc agtgcctctg gctagtcaga ggtgtggggg agcggcgctc accaagtcac 180
 ggttgagtcc cattgggtctg gtctcaggga gttgtcatgt cagtcccagt cagcagggtc 240
 agtccttggg ctgcattacc agtgggtgcag cttgggtcggg ggtcagtctt gaaggtcagc 300
 cggttggatc atttgggctc ttgctcccac cagcaccacc tctggtggga ggcatcaggc 360
 atggagtcgc ggggtgttgc gggagttggg tttt 394

<210> 11222
 <211> 394
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-F10

<400> 11222

cccacgcgtc cgatccggag cagccgcagt cccaccgacc ccgcccgcgg tcgccctgca 60
 tgtgctcgcc gctgcctctc gtttctcttt tcaataatca agatgagccg tgggtggtagt 120
 gccggtgggtg gtcaaagtgc tctgggttat ctctttggaa gcggtgagcc ccccaaacca 180
 gcagtggcac cagctgcaag tgctccacct gttgagaaac catctgctgc aaagactgat 240
 gcggccaagc aggttgctgc tggggttacc agccaaacca ataactacea cagggctgat 300
 ggtcagaaca ctggcaactt ccttacggac cgtccttcaa ccaaggtcca cgctgctcct 360
 ggcggtggct ctccctggg ctacctgttc ggtg 394

<210> 11223
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-D7

<400> 11223

cccacgcgtc cgccccgcgg tccgcttgct gcctactctc agcaacagca gtttcttgca 60
 ttcaaccaac tagctgcatt gaactctgct gcttatttgc aacaacaact accattcagc 120
 cagctagctg ctgcctaccc ccaacaattt ctccattca accaactggc atcattgaac 180
 tctcctgctt atttacagca gcaacaacta ctaccattca gccagctagc tgggtgtgagc 240
 cctgctgcct tcttgacaca acaacagtta ttgccgttct acctgcacgc tgcgcctaac 300
 gctggcacc ctttacaact gcaacaattg ctgccattca accaacttgc tttgacaaac 360
 ccagcagcgt tctaccaaca accatcatt ggtggtgccc tcttttagat ttcttatgag 420
 ttatagttca ataata 435

<210> 11224
 <211> 398

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-030-Q1-K1-B9

 <400> 11224

 ggtctccatc cagggcctcg tgctgaatga caggccatac ttcaatgagc caggatgcaa 60
 gagctcggct gaaacgacag gtggtgagag gtgttccttg gcttacaatc agacggcctt 120
 cgtcagatca tgcaagacga tgctgtattc actccggaag cctccaatgc attttgagac 180
 ccttgtgttg tggcacttcc acgagcatga gcgtgccatc ctcgacgctt gcagggctta 240
 catgtctggg acagtcgttg ggtcgtctgc tgggactggg agcaaccgca gatacgtcca 300
 tgacaagtgc tttgcagaat tccacaagtc gctgacgctc tacactgaac atctcagggc 360
 tgagtttgct gcaaacacaa gaegagtgat ggagcttg 398

<210> 11225
 <211> 391
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-030-Q1-K1-C1

 <400> 11225

 cccacgcgtc cgccccacgcg ttcaatgttt tccggatgaa gcttcttggt gcagagggga 60
 cgggggtaca ttctgggaca gcaaccctga aggatgcaac ttcagaggct atccgtgact 120
 gggtcacaaa tgtggagacc acacactata tcttgggctc tggtgccggt ccgcacccgt 180
 acccgatgat ggtgagggag atccataagg gacttggcaa ggaaaccgag aggcaggcca 240
 tggacaagtg ggggtggcaag cgggacgtat tggttgcctg cgtcggcggt ggatcgaacg 300
 ccatgggctt attccatgag tttgttgaag accaagatgt gaggctgggt ggagtggagg 360
 cagctggcca tggcgtagac accgacaagc a 391

<210> 11226
 <211> 64
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-030-Q1-K1-C12

 <400> 11226

cccacgcgtc cgcccacgcg ttgccccacg cgtccgcca cgcgccgaa aaaaaggaga 60
aggg 64

<210> 11227
<211> 298
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-030-Q1-K1-C4

<400> 11227

atgtccagca gcaaatacta ctaccatttg gccagctagc tccaccaggn ccggttggt 60
tgttgacca ccaccaatgg cttccgttct accagcagtt tgtggctaac cccgcaaccc 120
ttttacaact gcaacagttg ctgccctttg tccaacttgc ttgacaaac ccagcagcct 180
tctaccaaca acacatcatt ggcggtgccc tcttttagat tgcttattag ttgtcattca 240
ataatgaagt tttttggctg atgtatgtgg cctcctagaa ataagaagtt atatttcc 298

<210> 11228
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-C5

<400> 11228

gtgaacctta tgatttgtca ctgcaccatc cccggcaagc aagggactga ttgggagggt 60
ggatacttcc cactcaccct tcatttcagt gaggattacc ctagcaagcc tccaagtgc 120
aagttccctc agggtttctt ccacccaaat gtctatcctt ctggaacagt ctgtctttcg 180
atccttaatg aagatagtgg ttggagacca gctattactg ttaagcagat tctcgtcggg 240
atccaggact tgctagatca gccaaatcct gctgatcctg ctcaaacgga tggctatcac 300
ctttttatcc aggatcctac agaataaag aggcgtgtta aactgcaggc gaagcagtat 360
cccgcgttgg tctgagaact tcgccctact aaggatccaa gctgcacatt cgcatt 415

<210> 11229
<211> 294
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-C6

<400> 11229

cttccccctct tctatatggg attcaccctt cccctcttct atatgctgct gagatcagta 60

gcagtaacca gtttctgagt ttgcatccct agagatggaa accacacaat gtgtttgaat 120

atgcgcttgt gcatgatgta tgatgtatca ttcaaagagt atcttgatat tctttctgca 180

gaacatgaag aaactgtagg aagggaaccgt atgagttttg atcaatgtca gtcactttaa 240

cagacatttt gtactcatgc ttcattgtgc tagatagcat cttatcttta tctt 294

<210> 11230

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-C8

<400> 11230

gagaccaact agcaacatag aaagcacaat agtgtaccaa caatggcagc caaaatgggt 60

tgctcctta tgctccttgg tctttctgca agtgctgcta ccgcgaccat tttcccgcaa 120

tgctcacaag ctctatagc ttcccttctt ccccgtagc tctcaccagc ggtgtcttcg 180

gtatgtgaaa acccaattct tcaaccctat aggatccaac aggcaatcgc agctggcatc 240

ttacctttat cacccttgtt cctccaacaa tcatcagccc tattacagca gttacctttg 300

gtgcatttat tggcacaaaa catcagggca caacaactac aacaacttgt gctagcaaac 360

cttgctgctt actctcagca acagcagttt cttccattca accaactagc tgcattgaac 420

tctgctgctt a 431

<210> 11231

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-D1

<400> 11231

ctcttcagaa ggaaatttat gcgaagcttg tagctgcaaa gaatttccgt gctggcggt 60

tgagcctgcg tcagatacga ttgcccagtg tagatatgga gcttcataca agttatgacc 120
 ccaatggctc agtgtccata tatgatgtgg accaaagagt tgcagaacgg acacaagttc 180
 ttgctcctct gccggaggac agattcctgt gcagcttttag ccatatTTTT gcaggtggct 240
 atgctgctgg atactacagt tacaagtggg ctgaagtact gtcagctgat gcattctcag 300
 cttttgaaga cgctggtttg gatgatgaga aggcaatcga ggaaactggc agacgattca 360
 gagacactgt tcttgcgctt ggag 384

<210> 11232
 <211> 394
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-030-Q1-K1-D10

<400> 11232

 cccagcgtcc gagcttttgc gcttcgcaag ctgcctttga ccaaggctaa gcgatgcctt 60
 gaggatgtta ttgctcacia gcaggcaatt cccttcgga gatactgtgg aggtgttgg 120
 cgcaccgcac aagcaaagtc tcgccactcc aatgggcagg gtcgctggcc tgtaagtca 180
 gccaggttca tattggattt gctgaagaat gctgagagta acgctgatgt gaaaggcttg 240
 gacgtggaca acctctatgt ttcacacatc cagggtgaacc aagcccagaa gcagaggcgc 300
 cgcacctacc gtgctcacgg acgcattaac cttacatgt cctccccttg ccacattgag 360
 ctgattctgt cagagaagga agagcctgtg aaga 394

<210> 11233
 <211> 317
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-030-Q1-K1-D12

<400> 11233

 agttcggcaa catgggcacc agcgccatcg ccctcctcgt ccacgccgtc atcttgggct 60
 ggctgctcac catctttgtc gtcgccatcg gcatccacgt ctacgccgcg tatgcgtacg 120
 tagcccagcc atgctaggta gcttatgtc catacgttcg actggcttgc ttcgcttccc 180
 acgatgggtg tctctttgta actttccagg tcttttgagt atgtaggcta cggatggcgc 240

aagatttagt tgctcatctg ctatgtttgt tagtgctcgg cttttcacta caggaaacgc 300
 ctaaattttc atgggcc 317

<210> 11234
 <211> 432
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-030-Q1-K1-D2

<400> 11234

gtattcaaaa acacaccaag cgaaacatat tagctacaac ctaacaacaa tggctaccga 60
 gagtgtattc cttcatggcg cttttgggct ttttgggagc gcaacatatg cgttcattat 120
 tccacaatgc tcacttgcta caagttccat tattacacag gtcctaccac cagatactta 180
 atgggctttg acaccagct gtgcaagcct atatgttaca acaagcaatt gcggcgagcg 240
 tcttacaaca accaattttc cagttgcaac aacaatcctt ggcacatcta acaatacaaa 300
 ccatcgcaac gcaacagcaa caacaattcc taccagcact gagccaccta gccatggtga 360
 accctgtcgn ctacttgcaa cagcagttgc ttgcatcaaa cccacttgct ctggcāaacg 420
 tagttgcaaa cc 432

<210> 11235
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-D3

<400> 11235

agctttatct actccagagc gcagaagaac ccgatcgaca ccatgagggg gttgctcggt 60
 gccgtcgctc tcttggtctt cgctgcgagc gccacctcca cgcatacaag cggcagctgc 120
 ggctgccagc caccgccgcc ggttcactta ccgccgccgg tgcactctgcc acctccggtt 180
 cacctgccac ctctgtgca tctcccaccg ccggtccacc tgccgccgcc ggtccacctg 240
 ccaccgccgg tccatgtgcc gccgccggtt catctgccgc cgccaccatg ccaactaccct 300
 actcaaccgc cccggcctca gctcatccc cagccacacc catgcccgtg ccaacagccg 360
 catccaagcc cgtgccagct gcagggaacc tgcggcggtt gcagcaccgc g 411

<210> 11236
 <211> 364
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-D4

<400> 11236

agcgttatct actccagagc gcagaataac ccgatcgaca ccatgagggt gtagatcggt 60
 gaggtcgtc ttctaggtct caatgttagc gccacctgca cgcatacaag cagcagctgc 120
 agatggcagc caccaacgac ggttcatgta ccggctttac aacatctgcc acctgaaaac 180
 acctgcgac tcctatgcat ctgccaccga cgagacacct gtttgcgcc ggtccacctg 240
 taaccgacag gccatgtccc atcgcccttt catacgacgc cgccaccatg acagtacatt 300
 actcaaccgc tgcagcctca gactaatccc cagccacacc gatgctactg ccaacaggag 360
 catt 364

<210> 11237
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-D5

<400> 11237

cccacgcgtc cgcggacgcg tggggttcga aggagatatg ctttcacct ccttggtgtt 60
 cgaatgttaa tgggttcgca tgtgatacga acatgacctc ctttagtcaa cgaaatgtgt 120
 ctacttggtt aagtggtaaa gggtcgtttg cttatggaat ctatttgggg gctcttcttg 180
 ttatatcgag caattcgctt gctgtcaaaa ttctctatcc tatattttgg ggactcatga 240
 cactcagtac ttttggtaac gatcttgccc caacaagcaa tggatttgag gtgatattca 300
 gcataatcaa tgtctcagc ggctgatgc tcttcacatt gctgatcgga aacatacagg 360
 tattttctgca cgcggtcctg gcaaggaagc ggaagatgc 399

<210> 11238
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-B8

<400> 11238

cccacgcgtc cgccacgcg tccggattga agggctaaaa cgccatccaa ggtatggagc 60
tcgaattgag agcagcacat acaagggcgt gtaccatgcc ctaaaggaga ttgtcgcaaa 120
ggagggattt ggaggccttt ataagggcct tttcccctct ttggtgaaat cggcccctgc 180
tggtgctgtg acatttgtgg catatgaata catctcagac tggttagagt cgatactgat 240
gtgaaaatct tcaatgcaga tagggagcaa ggctggagtt gagtggagtc ttgatggatc 300
atggagctat caagatacca tgacgagaac tttttgcaca ccgtggacat ggaggatgga 360
gaccggaagg tcaatcgta agtgcataca attcctagag atccgataca tgtaaagcct 420
tacatagaaa ag 432

<210> 11239

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-D6

<400> 11239

cggacgcgtg ggtgaagttt tgacggtacg gttaccctca tcaccggacg tggttcgatg 60
gttgaagaag ccgtgatggg gaacgccacc aacagcaaca agcgatactg ttacactggg 120
tcagcaaaaa gttttgttct gctctatcag tcggccaaag ctgaaatttt caaatattct 180
agatcagagt gattagcatg ctacttctga acagttgcag caattgtcta tcctgcggaa 240
ctatttatgg gactgtgtat tgtaagtcg gttttctccg agttatacga gacgtatggc 300
atcttgagat gtgtcaccaa aaaaaaaca aaaactaa 338

<210> 11240

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-A11

<400> 11240

ttcaacatcc catccccacc tccacggctg ggggctacct ccttcttcac ctacttgctc 60

tttcacttcc tatectactt acaccttttt tccatatttc tcacaccact tcttttctcc 120
tctgactgcc tcaacattct attccccaac tataccctcc ttcttgctac aataacccat 180
cacaccatgc atcttactgt cctagcattc actgtccatc aaccatatgc cctatcgcta 240
cagccatcct tagtgcatct atatcttcaa acattcgat cacatcaact tcaacatcaa 300
ttgcttacaa ctattaatca cgtccttgca gcgaaccttg atgcttacct tc 352

<210> 11241
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-A4

<400> 11241

cgaaaagttt aactgctgga gtttgcttgc caaagggcaa caaggatgat aaaggcctgg 60
aaacagagac ctggtatgat ctagctctct tatacctagg tatggcacia tggagggatg 120
cagaggtttg tgtattgaag ataagatcca tcagtcctta ttctgcattg gcttggcatg 180
ctacaggaaa aatatatgaa gcaaaaggtc ttagaaaaga agctttggga gcttttttca 240
gagccttaga tcttgatcct aaacatgtcc caagttaaat atcaactgcc actgttctac 300
aacaacttgg tgacaggcca ttgccttcta tacggtgctt cctgactgat gcattacaac 360
tgatagaac taatcatgtt gcgtggttca atcttggcct tctttacaaa gaggaagggtg 420
gcaggtcagc 430

<210> 11242
<211> 426
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-030-Q1-K1-A8

<400> 11242

caatgattcc cgtgagaagc agcgcaaatt tggtgaaacc attgagctac aaattgggct 60
gaagaactat gacctcaaa aggacaagcg cttcagcggc tctgttaagc tgcctcacat 120
ccctcgccct aagatgaagg tttgcatgct tggatgatgc cagcatgttg aggaggcaga 180

gagaatgggt atagacaata tggatgtgga agccctcaag aagatgaaca aaaacaagaa 240
gctagtgaag aagctggcaa agaagtacca tgctttcctt gcatctgagg ctatcattaa 300
gcaaattcct cgtcttcttg gtcttgggtct taacaaggca ggaaaattcc ctaccttggt 360
gacacaccag gaatcccttg agtccaaggt taatgagaca naggctacag ttaagttcca 420
gctgaa 426

<210> 11243
<211> 374
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-030-Q1-K1-A9
<400> 11243

ccgacatcgt cccttcgtcc ccacgagcaa ccgataatcc gccggcgttg agatgttggt 60
ttatcaggat ctctatctg ggcacgagct cctgtcggat tcattcacct acaaggagct 120
cgagaacggc gtcttgtggg aggtcgaggg aaagtgggtc acccaagggtc ctgttgatgt 180
ggacattggt gccaatccat ccgacgaggg tggtagggac gaaagcgttg atgacacagc 240
tgccaagggtg gttgatattg ctgacacatt ccgtctacag gagcaacctc cttttgacaa 300
gaaatcattt gtgtcttaca tccaacaata catgatgaat ctactgctg tggtaggagcc 360
agagaaagcg gatg 374

<210> 11244
<211> 405
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-030-Q1-K1-B1
<400> 11244

aggaatgagg gatgtgatat ttgctgatat tccaaagctc attccattta ttgatctgga 60
ggatatgagc ctattcagtt gcttctacga ttttgttttc ttcactctgcc gtgaaaagggt 120
caaaagagtg tcaactattca gagagctgta gcagcatgga ggattgttct aagtggaagg 180
ttccgtttgc ttgatcgatg gtgtaacttc gttgagaagt accaacgcca taacatatcc 240
gaggatactt ggcagcagct gctagctttc agcaggtgtg taaatgaaga tctggaagggt 300

tatgaccac gaggtgcttg gctgttctg attgatgatt ttgttgagca aatgcacaga 360
 atttatcact ccactgactt gcacagtgcg atggaatcac agtgt 405

<210> 11245
 <211> 393
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-030-Q1-K1-B10

<400> 11245

cccacgcgtc cgccgcgcc ggttcactctg ccgccccac catgccacta cctactgaa 60
 ccgccccggc ctcagcctca tccccagcca caccatgcc cgtgccaca gccgcatcca 120
 agcccggtcc agctgcaggg aacctgcggc gttggcagea cceegateet gggccagtgc 180
 gtcgagttcc tgaggcatca gtgcagcccg acggcgacgc cctactgctc gcctcagtgc 240
 cagtcgttgc ggcagcagtg ttgccagcag ctcangcagg tggagccgca gcaccggtac 300
 caggcgatct tcggcttggc cctccagtcc atcctgcagc agcagccgca aagcggccag 360
 gtcgcgngc tggtggcggc gcagatagcg cag 393

<210> 11246
 <211> 324
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-B11

<400> 11246

tccgcacgcc acgcgttcga gcagctgtat ggtgcatcca aattaactga ttctactgct 60
 aatagtactg tttatgcgtg ggggtaccatt ataatatatt aacgatgttc ccattgctgc 120
 atttacaatt catagagaca acatagtata aatagtagaa gccgttacgg attaaaacca 180
 aactagcagg ctctatcttt tataagtaca aaattgtgcc gaatgctcta tctttcataa 240
 gtacaaaatt gtgccgaaaa aaaaatgcga cagtcattga agtcatctag ctaaaaaagg 300
 tagcaacctc taatacatcc atga 324

<210> 11247
 <211> 290

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-030-Q1-K1-B12
 <400> 11247
 cccacgcgtc cgccccacgcg tccgcggacg cgtgggaaaa aaaaaaaaaa aaaaaaggaa 60
 aagagaaaaa aaaaaaaaaa aaaaaaaaaa caaaagtaac tacttcagaa aaaaaaaaaa 120
 aaaaacataa ataaagcaaa aagaggccgg ccattctaaa gaatccaaca ttcaaaccga 180
 gaacgttgta cgcatgaagt acgttatgta tactgctaaa caaagtaaga ggccatttga 240
 gcatagcttc cagtgcggaa actacaaggt tccaacaaac tgatgatatc 290

<210> 11248
 <211> 384
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-030-Q1-K1-B3
 <400> 11248
 gcttaaactg aatgggattg atacttctgc tttcctatca cccgtagatc tgacacgagg 60
 atcaattgag agaaatctcc aaatcgctgc agttctggga gggctttctg tatcagctgc 120
 attggaactt tctcaactcc aaatcctgtt tctcatacta ggtctactat ctttgtggtc 180
 cgtggacttt gtatatattg gtggtggggg gagaaacttg gttcttgata caattgggtca 240
 ctatcttagc cagaagtatc acaacagagt tatccagcat gaagctggtc acttcttgat 300
 agcttacttg cttggagtgc ttccaaaagg atacacaatc acaagcttag atacacttat 360
 gaatcaaaga tcgcttaatg tgca 384

<210> 11249
 <211> 387
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-030-Q1-K1-B4
 <400> 11249
 gccctcgggg tcggatgcga cgagcaggga gttggtggac ttgtcgaaga ggacgaaggc 60
 gtatgagccg gtgagctggg cgagcatgaa gctggccggg tagggcgcg cggcgcgcag 120

cgtctttag gacctgatga cgaggagcac ctcgttggcg cccttgcttg acagcccgtg 180
 ctgctggctc agacgaccca ggttggtccag caccctctcg aacaggcaga acacctcgtc 240
 cttggccgcg aacgacctgt ggaggaggag cgcctggttg gtgtgggagt aggcgaggtg 300
 gccgtggtcg ccgagctgca cggacacggg cggctcggag gcggccagga agcgccccac 360
 cagctgcgac gccttcgtct tgggcga 387

<210> 11250
 <211> 250
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-B5

<400> 11250

cactcgaccc actcatcctc gcacgcaccc acccactcct tctcattttc ctccaatact 60
 aaaaaaaaaac agtaccgatc ctcttccaat ttaatataat aaccatacac actaaaaacta 120
 catctcacac aacaaatata caacataacc aaactacaaa caaccgcta ctactaaaaa 180
 acccactacc atcatccaat caccataaac tccaaaacat tacctcatcc ccactattac 240
 ataattacaa 250

<210> 11251
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-B6

<400> 11251

gaccaactag caacatacaa agcacaatag tgtaccaaca atggcagcca agatatggtg 60
 cctgcttatg ctccctggac tttctgcaag cgctgctacg gcgaccattt taccgcaatg 120
 ctcgcaagct cctatagctt cccttcttcc gccgtacctc tcaccagcgg tgtcttcagt 180
 atgtgaaaac ccaattcttc aaccctacag gatccaacag gcaatcgcag ctggcatctt 240
 accttatca cccttggttc tgcaacaatc atcagcccta ttacaacagt taccttcggt 300
 gcatttattg gcacaaaaca tcatggcaca acaactacaa caacttgtgc tagcaaacct 360
 tgctgcctac tctcagcaac agcagtttct ttcatccaac caactagggt cattgaactc 420

<210> 11252
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-B7

<400> 11252

cggacgcgtg ggcgcaaatt gcaccaagaa atccatcgag aggccgtcga cgggggagat 60
taatggcgtc gtcgtctagc agcagccacc gccgcctcat cctcgcagcc gccgtcctgc 120
tctccgtgct cgcggctgcc agcgcacagc cggggacctc ctgcgtgccg ggggtgggcca 180
tcccgacaaa cccgctcccc agctgccgtt ggtacgtgac cagccggacc tgcggcatcg 240
ggcgcgcctt cccgtggcgc gagctgaaga ggagatgctg ccgggagctg gcggacatcc 300
cggcgctactg ccggtgcacg gcgctgagca tctcatgga cggcgcgac cgcgcgggcc 360
cggacgcgca gctggagggc cgcctagagg acctgccggg ctgcccgcgg gaggtg 416

<210> 11253
<211> 389
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-030-Q1-K1-A10

<400> 11253

cggacgcgtg ggggtagatg ttggtagctg ctctgcaaca aactgatata acctaacacc 60
aagccatgcc aacctcagcc aaaggggtgt atgccctaca ttgcatatta tttttcttaa 120
atatgtttat tcagattgta gatgattgct ctcttgagc cttgcttttg gtatcaaaga 180
cacttcctta tttgggtccc tattacacag gcaaagagaa gacgaggtag aaccccaaca 240
cctgggaagt atcttggcac aaaatcatcc cgtggacgga ggtactccac aagctactca 300
cctgatcgga ggggcccgtta cagttccgcg tactcacctg atcggaggga ctgtcatggt 360
agagaccggt cataactctnc atatgacag 389

<210> 11254
<211> 455
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-029-Q1-K1-G5

<400> 11254

ggaattaccc gggctcgacg ccacgccgtc ccggttgcca tgggtgcctc tnngaacgtg 60

gtatgttata cgagttccag aaaccaacct ggtacggcta cgcgngagg atccacttgc 120

atgctttctt cgtaccgctc cagtcattctc tgcntgagaa ggggcctacc acgagcnnag 180

ctctctgtgg ctgagatcac caacagcgcc ttcgagccat cttccatgat ggccaagtgc 240

gaccacgcc atggcaagta catggcctgc tgcctcatgt accgtggtga tgtggtcccc 300

aaggatgtga atgctgctgt ggccaccatc aagaccaaac gcaccatcca gttcgtggat 360

tggtgcccga ctggcttcaa gtgcggcatc aactaccagc ctntagcgt tgtgcctggg 420

ggcgacctgg ccaaggtgca gcgtgccgtg tgcac 455

<210> 11255

<211> 239

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-G7

<400> 11255

aaccattttg cttacgaggg gcacctagct cgctctggta acgtaccatg gctgatcacc 60

accggcctgc gaccggaggt ggcggaggct actgagacct ccagcgccgg ggcggcatgc 120

actgagaggg gcaacagcag cagaaacacg gcgccatgat gacggcgctc aaggccgcga 180

cagccgcgac cttccgccgg tcgatgctgc agctgtacgg gctgatcctg gcctgcacc 239

<210> 11256

<211> 286

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-029-Q1-K1-G8

<400> 11256

gcgtgcgtcc acgcgtccgc cacgcgttcg acaagcacat agaagtggaa ccgggtacgg 60

caacagagca acaatggcga ccaagatatt ttccctcctt atgctccttg ctctntctgc 120
atgtgttgct aacgcgacaa ttttccctca atgctcacia gctcctatag cttcccttct 180
tccccatac cttccatcaa tgatagcttc agtatgtgaa aaccagctc ttcagcccta 240
taggtccaa caagcaatcg cagcaagcaa cataccttta tcaccc 286

<210> 11257

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-G9

<400> 11257

ctcagagcag ccgcatccac aacctgcctc tctcgctccc tggcggcgctc cgcggcagga 60

tggcggaatc tacggcgagg acggtgaagg atgtcaaccc gcacgagttc gtcaaggcct 120

actccgcca cctcaagcgc tccggcaaga tggagctccc tgagtgggtt gacattgtga 180

agactgcgag gttcaaggag cttcctcctt atgatcctga ctggtactac atcagggctg 240

catccattgc aaggaagatc tacctaaggc aaggcatcgg tgtgggtggc tttcagaaga 300

tctacggtgg ccgccagagg aatggctccc gccaccaca cttctgcaag agcagtgggtg 360

ctgttgacg caacatcctg cagcagctgc agattatggg catcatcgat gtc 413

<210> 11258

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-H1

<400> 11258

gataccaccg ccgctgcaca caaaccaga aaccaccggc aataaacaac tcccgtctgc 60

agtctccgat ccgaggaagc cggaagaggg gatttcgagc cgcggcgacg ggggctagag 120

tggccctcga cgcgtccgcg ggtggaattg ccgagaagcc gagagagagg gcttggagcg 180

gagttgcggg aggtgggaga gaaggcggcg atggggcgcc tgttcctgat gcacctggac 240

ggcaacgtct acagctgcaa aactgcaag acccacctcg gcgttgccag cgacatcatc 300

tccaaggcct tccagtgcaa gcacggcaag gcgtacctct tccataagggt tgtcaacgtg 360

acttctggag taaaagaaga ccgcatgatg atcacaggaa tgcatactgt atctgatatc 420
 ttctgtgttg gct 433

<210> 11259
 <211> 393
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-H11

<400> 11259

atttgcattc acaaccgcag aagctggaaa ctacgttgca tgcttctggg ttgatagtgc 60
 agagaaaagga tcaggagtat ctgtgaatct tgactggaag attgggatcg caacaaaaga 120
 ttgggatgct attgctaaga aggaaaaaat tgagggtgta gaactagagc ttcggaaact 180

tgaagtggca gtgcaggcca ttcatacagaa cttgatatac ctcaaagaaa ggaagcaga 240
 gatgcgaact gtgagtgaga caacaaattc aagggtcgtc tggttcagta ctctgtcgtc 300
 atgggtctgc attgcggtat cggttttgca agtccgacac cttcaagggt tcttcagaaa 360
 gaagaagctc atttagagtc tctctgtaag atg 393

<210> 11260
 <211> 327
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-H12

<400> 11260

cggtcggatt ccggctagcg tccgggtccgc gtccgggcat ctcacattct gccagttctt 60
 cttgagcacc atgtggaagg cgtacggggt gttctaagggt tgctcttttg tgaagtctgc 120
 taggttctgg cagcgagggt ttattgaatt aaactcttgt taaggatatg tttttggacg 180
 atcctatatt tcgtcctggc gctactatgg ttcagaatgg tgggtactact ataagtatcc 240
 tagcgtata agtattgctt gaaaggatca atataatttg cgtgtcatat ccgcaacctt 300
 ttctgccaaa aaaattaata ctataag 327

<210> 11261
 <211> 416
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-H2

<400> 11261

gtgatcctga gattgggatg ccactgacca ttcattcagta caagctgctt actacagggg	60
tgctcattgg acgtctcatt aatgctaatac agcacctttt ggcccttcgc atctctgagt	120
accttaacct gaacccggag gttgtgataa tgcattgggc atgtgagaag ataacagcat	180
caacaactct tccagatata gtccttcttg atggctctgct tgataagctc aggctatgta	240
aagggatatc atatgctgca gtggcagctc atgcagataa cagtggctga cgaagggttg	300
ctgcaatgct cgttgatcat gagtcacagt cctctaagca gatccccttg ttgctcagca	360
tcgatgaaca agacaaagca ttatcaaagg caattgaaag tggcgatacc gatctt	416

<210> 11262

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-H5

<400> 11262

atgggattag gccagggacc acagcatctg gattggcgaa actgaaacca gttttagga	60
aggatggaac tacaactgca ggcaattcca gtcaagttag tgatgggtgct ggagctgttc	120
ttctcatgaa aagatctgtg gctctgaaga aagggtgccc cattcttggt gttttcagga	180
gctttgcggc tgttggagtg gatccagctg ttatgggtgt tggctctgct gtggccattc	240
ctgctgctgt gaagtctgca ggccttgaga ttggcgacat tgatctgttt gaactgaatg	300
aggccttcgc ctctcagttt gtctattgct gcaacaagtt ggggctggac cgttctaaag	360
taaatgtaaa tggaggcgcg attgcccttg gacaccctct gggtgcaaca ggttgcccg	420
gtgtggc	427

<210> 11263

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-H6

<400> 11263

cccacgcgtc cggcagctgc agcaactcgt gctacctgtg atcaaccaag taggtctggc 60

aaacctttct ccctactctc agcaacaaca atttcttcca ttcaaccaac tgtctacact 120

gaaccctgct gcttatttgc agcaacaact attaccattc agccagctag ctactgccta 180

ctctcagcaa caacaacttc ttccatttaa ccaattggcc gcactgaacc ccgctgctta 240

tttgcagcag caaatactac taccatttag ccagctagct gcagcaaacc gtgcttcctt 300

cttgacacag caacagttgc tgccctttcta ccagcagttt ggggctaacc ccgcaaccct 360

cttacaacta caacaattgt tgccctttgt ccaacttgct ttgacagacc cagcggcctt 420

ctaccaacaa cacatcattg g 441

<210> 11264

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-H9

<400> 11264

ggactcgctg ctgttctttt gcttgggtacc cttggatctc tgactccagc ccgttccccg 60

aaatttccag ttcttgcttc ttccctcttg aggaggagg ctgcagcctg caggggcccgg 120

agagagcagg aggaggcgga gacatgggta gcttcgctaa gctggcgagg agggcggtgg 180

agacggacgc tccggtcatt gtgaagatac aagaactgct ccgagggggc aaggatgtga 240

tgtcgcttgc gcaggaggtt gtttactggc aacctcccga gtcagctatg gataagatcg 300

aaaagatcat cagggaacca atagtcagta aatatggttc tgatgatggg cttcctgagc 360

ttcgagaagc acttctcgaa aagctaagca gagagaacaa gcttaccaaa tcatcagtca 420

tggtcac 427

<210> 11265

<211> 441

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-029-Q1-K1-G4

<400> 11265

ccgacgcgtn cggtgaggac acaaactctt gtgaagagtg ccattgtgca agttgatggt 60
 gggccattca agcagtggta cctcactcac tatggagttg acattggtag gaagaagaaa 120
 acccctgctg caaagaagga taatgctgag ggacaagagg ttgaggcagc agctgaggaa 180
 acgaaaaaga gcaaccatgt cacgaggaag cttgagaagc gcaaggaggg acgtaccctt 240
 gaccacacaca ttgaggagca atttggcagt ggacggttgc tggcatgcat ttcttcccgc 300
 cctggacagt gtggccgagc tgatgggtac atccttgagg gtaaagagct tgagttctac 360
 atgaagaagc tacagaggaa gaagggcaag agcgctgtag cttagagcat tctcatggat 420
 tgtcttgac cgaaatgtgt g 441

<210> 11266
 <211> 436
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-029-Q1-K1-E8
 <400> 11266

cgcatctgc ttccagagcc ccccgccgtc gctgcgccct cctctcggtc ctgccgtcgg 60
 tcgaggtaaa aggacagcat ggtgagggtc agcgtgctca atgatgctct caagtccatg 120
 tacaatgctg aaaagatagg gaaacgtcag gtcatgatca ggccgtcatc caaggtgatc 180
 atcaagttcc tgacgggtcat gcagcgccat ggttacattg gcgagttcga gtacgtggat 240
 gaccacagag ctgggaagat cgtgggtggag ctgaatggaa gactgaataa atgtggtggt 300
 attagcccac gttttgatgt aggtgttaag gagatcgagg gatggacggc gaggcttctt 360
 ccatctcgcc agtttggtta catcgtccta acaacttctg ctggaattat ggaccatgaa 420
 gaggcccgcc gtaaga 436

<210> 11267
 <211> 419
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-029-Q1-K1-E9
 <400> 11267

gaaagtggaa tccagtagca acaacagatc aacaatggcg accaagatat tttccctcgt 60

tatgtctcctt gctctttctg catgtgttgc taacgcgaca attttccctc aatgttcaca 120
agctcctata gcttcccttc ttccccata ctttccatca atgatagctt cagtatgtga 180
aaacccagct cttcagccct ataggctcca acaagcaatc gcagcaagca acataccttt 240
atcacccttg ttgtttcaac aatcgccagc cctatctttg gtgcagtcac tggtaaaaa 300
catcagggca cagcagctgc agcaactcgt gctacctgtg atcaaccaag tagctctggc 360
aaacctttct ccctactctc agcaacaaca atttcttcca ttcaaccaac tgtctacac 419

<210> 11268
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-F11

<400> 11268
ccagcgttcg cggcgcgtgg gtttgtctgc atacccctg caattattat tgaaggaccg 60
caattagtgc agcatggttt taaagatgca attgccaaag ttggattaac aaagctgatt 120
tctaattttt ttgtgggtggg cttattctat cacctttata accagtatgc taaaaacaca 180
ttgtagctgg tagccccctt aacacatgcc atcggcaatg tgttgaaacg tgtcttcgtc 240
attggctttt ccatcatcgc attctgcaac aagatcacca cacatactgg aatcggcact 300
tgcattgctg tttctggcgt tgcctctac tcatttataa aggctaagat tgacgacaaa 360
aagcacctta agagtgcata a 381

<210> 11269
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-F2

<400> 11269
aggaggcgct agtcggcaag gtcaacataa accttgttta cctcatcaac atcgaggggg 60
gcgccgtcat tggctctgtc cgcaaggacg ctgccttat aaccgctcga ccgtctgcaa 120
atgcagcggc tctgggattc gacgacgagg tttatcgcgt ggacgccacc gttctacatc 180
ccatcatcga cgagggccat attccggata tcggcaccga tggcgccgac gagactgggc 240

aagcctataa catcaatgct gatacagcag ctggcgagat tgccgctgac gtgggcgccc 300
 agaagctgct gttgctcaca catgtgtctg gcattttggc ggaccgtaat gaccctgcga 360
 gcctggtgaa ggtggtcgac attgctgcgg tgcg 394

<210> 11270
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-F4

<400> 11270

cccacgcgtc cggtagggtt gatgggaagc ctgaagatgt tctaaatcca aagaaaagag 60
 cagctggaca agattacccc ggtacacttc agtggcctgt ttgatatgat gtaacatcat 120
 tgtcatggaa tggtcttggc taacataaca tactcaatta tcagatcctg aattgaaaca 180
 ccatgtttgt ttttatttga tgaatgatgt cgcttattgc tatactgtgc aaagtttacc 240
 actatggcgc taaccgcgtt gtttatgcat ccagcatctt cgtaccgacg agaatggaat 300
 tgcaatgttc aaaggtgttc cctttactac atcagctggc ccatgtagat cttcgattca 360
 caacggaaat gttaagttag cagctcatta gacatggttg catagattga catcaaactt 420
 atgc 424

<210> 11271
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-F5

<400> 11271

ctcggttcgg attcccggcc gccacgcgt ccgggggttg cttctcctcc cctccgggtt 60
 cgggttcggg ttcgtgaggt tctccggggt tggggttcgt gggtgagcgg atcgagatgg 120
 cggcgtcgga tggtgagtac cgctgcttcg tcggcggcct cgcctgggcc acggacgacc 180
 actccctcca caacgccttc agcacctacg gcgaggtcct cgagtccaag atcatcctcg 240
 atcgggagac gcagaggtcc cgcggcttcg gcttcgtcac cttctccacg gaggaggcga 300
 tgcggaacgc catcgagggc atgaacggca aggagctgga cggccgcaac atcacctca 360

acgaggccca gtccccgcggc ggccgtggag gcggcggcgg tgggt

405

<210> 11272
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-F6

<400> 11272

aaaaaaaaata ataataaaaa ataattaatt aaaaaaaaaa aaaaaaaaaa aaaaaaggaa 60

gaaaaataaa aaaaaaaaaa aaacaaaaaa aaaaaaaaaa aataataaat accaaataat 120

taaaaaaaaa acataactaa aaacacaaac aaccactccc tccacaacac cttcaacacc 180

tacaattaac tcctccactc caatatcatc ctcgatcgga aaaccacag tttcccaaa 240

ttcaacttca tcaccttcta cacccacgag gcaatcccga acaccatcta aaacatcaac 300

tgcaaggaac tttacaacct taacatcacc ttcaa 335

<210> 11273
<211> 422
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-029-Q1-K1-F7

<400> 11273

cccacgcgtc cgcggacgcg tgggggactt tttggaaact gaatttatag ttgggcccgt 60

accantagat gatggaaatg gaaaagaagt agcaactgaa attgttaca acatgggttac 120

aaacaaaaca ttctacactg attccagtgg acgtgatttc atcaaaagga taagagatta 180

tcgatcggag tggaagattg aagtgcacca gcctattgct ggaaactatt atcctgttaa 240

tcttggcatc tatgtggagg atggcagcaa agagctgtct gtactggtag acagggtcaat 300

tggaagttcc agtataaagg atggacaaat agagctaatt ctacacagga ggctactcca 360

tgatgatggg aaaggcgtcg ccgaggcgct aaatgaaaca gtctgtctcg ataagcaatg 420

tg 422

<210> 11274

<211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-029-Q1-K1-G1

 <400> 11274

 cggacgcgtg ggcggacgcg tggggctctg ggctatgaag gccggctaaa gcccgaatga 60
 tgacatgtga aacatagata agaaaaggag aaaaaaata cctagagcta ttatgcaatg 120
 ctgacgtgat tctccaaatc ccataccacg atcttaccat ccaatcctga tgtgctgaat 180
 cgtttgatac taccgtcgtt tactttttctc aagggtacaa tacacgttat gcaatttctca 240
 tgggccccgc cacgagggtt tgatgggttca acggtatcac tactagtccc ttgctttgat 300
 tggccgtata gctttccaag ggcttcagag agctgcgagg cttttgaagc tgatggggca 360

gctgtcctgt agtgcaagaa tcttatgaga gtccaaagcc cagtatcatc agcagcacag 420
 atcatagga 429

<210> 11275
 <211> 370
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-029-Q1-K1-G10

 <400> 11275

acaaattgta ccagctctga ctcagctagc tgtggcaaac cctgctgcct acttacagca 60
 ggggcttcca ttcaaccaac tggtgtgtc aaactctgct gcgtacctac aacagcgaca 120
 acagttactt aatccattgg cagtggctaa ccattggtc gctaccttcc tgcagcagca 180
 acaacaattg ctgccataca accagttctc tttgatgaac cctgccttgc agcaacccat 240
 cgttggaggt gccatctttt agattacata tgagatgtac tcgacaatgg tgccctcata 300
 ccgacatgtg tttcctagaa ataatcaata tattgattga gatttatctc gataaaaaaa 360
 aaatacatgc 370

<210> 11276
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-G11

<400> 11276

gcagaagcca ccgatcggcg tgccgcgtgc gtgaggcgat cggagcatcc cgtcccgggg 60
aggaagacaa ccggcgacgc ggggggaaca tggggaagac gccggtgcgg atgaaggcgg 120
tcgtgtacgc gctgtcgccc ttccagcaga aggtaatgcc ggggctgtgg aaggacatca 180
ccaccaagat ccaccacaag gtcaccgaga actggatctc cgccacgctc ctcctcaccc 240
ccgtcgtcgg cacctaccaa tacgccatgt ggtacaagga gcaggagaag ctttcccaca 300
gatattaaat gcgctgccct tcacagacag cacttggatt taacatttgt ttgatcaatt 360
tcagttcaac gccttttcat cgttccatat gcatgtatg 399

<210> 11277

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-E7

<400> 11277

ggtcgccgctc ctgcgaagca gaccgcgcgc gccacgcgcg gagggatgct ttggatgggt 60
cgaccgtagc ggctacgctg ggcgatgagt tgtcttggac ccgtgactgc ttggaggacc 120
cccgtgcccg tgccggccgac tcccggcgcc cgtgtcccat cgctcgtgcg ggcatcccgt 180
gcctgctgcg ttgagaagtg cttgcgtgct gctaccgctc ccacgggaag ccgtgctcga 240
tacacgttgc cttcgtcgag ctcacccccg ggggtgcggc tcgtcggctc gagagcgccc 300
gcggcgtttg cctcgtgccg ccgtcggcct atggccggcg gcaccgagga cacctcgtctg 360
gcgcttttgg tctcggatgt ggctcacgct gaaggccgga gacgcgttgg cgtcacgcg 419

<210> 11278

<211> 408

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-029-Q1-K1-G2

<400> 11278

cccacgcgtn cgcggacgcg tgggccgtga tttaagatgc tttaattcct agtgggaagga 60

tcataataag tcagccaaca ccatgtatat aaggatgggt tgcatacat ggtgatcgcc 120
aatgcgcac aagttctctc atcccttgcc agaccatgct tatttccatt gcacaatcat 180
caagctctgc atcaacttgt tgaggataat aatgaaataa tacatgggtgc cattacatgg 240
caacattttt ctgtcactag tatgaggcac taggctaaat gtactgacga ctggaattcg 300
aatatgtatg cttttgcaat cggacaccta aataccttga gcttatactc gttacctaaa 360
tatgtcact gtcactcttag attgttcgaa aatgtcatgc attacatg 408

<210> 11279
<211> 251
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-D12

<400> 11279
caccttacca acgcaatagt gctgaatcca ctctcagcaa tcatgtatgg tactagagca 60
tctgtgttta taaaaatgaa gaaaccatct gctgccattc gtgatgtcaa tgctgctcta 120
cacatcaacc catactctgc aaaatgctat aaaactcgtg gaatggcata tgccatgctt 180
gtcaaattggg aggaagctgc tcatgatctg cacacagcat ctaacatgga ttacgactag 240
gagatcaatg c 251

<210> 11280
<211> 431
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-029-Q1-K1-D3

<400> 11280
cccacgcgcc ggtccctctn ctctggaggt attcgcagtc gaccgtgtcc ctcgagccgg 60
atgaaagggtg gtgctgccta cctgcttget gtccctcgtg ggaatgccag cccctccgct 120
gaggatttga ctggcattct ggagtcagtt ggctgtgaag ttgacaatga aaggatggaa 180
ctgctgctgt cccaactgag cggtaaggac atcaccgagc tcattgccgc gggcagagag 240
aagtttgctt cagtccecatg tggcggcggc agtgtggctg ttgcggcagg tgcacctgct 300

gctggcggag ctgctcctgc agctgacgca aagaaagaag agaaggtgga agagaacgaa 360
gaaagcgatg atgatatggg cttcagcctc ttcgactagg ttgcacagtc atcacagtat 420
tgtttcgggc a 431

<210> 11281
<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-029-Q1-K1-D4

<400> 11281

gatgttttgc ctccttatgc tccttgcttt ttttgcattg gttgctaacg cgacaatggt 60
ccgtcaatgc tcacaagctc ctatagcttt cttctctccc ccataccttc catcaatgat 120
agcttcagta tgtgaaaacc cagctcttca accctatagg ctccaacaag caatcgcagc 180
aagcaacata cttttatcac ccttgtttca acaatcgcca gccctatctt tgggtgcagtc 240
attggtacaa accatcaggg cacagcagct gcagcaactc gtgctacctg tgatcaacca 300
agtagctctg gcaaaccctt ctccttactc tcagcaacaa caatttcttc cattcaacca 360
actgtctaca ttgaaccgtg ctgcttattt gcagcaacaa ctattaccat tcagccagct 420
agctactgnc tactc 435

<210> 11282
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-D5

<400> 11282

ggtacgaccg gttggagatc atggactttg taccacacat ctaagactgc tgcgggaagg 60
tcatgttata ttatggagat ttcaagaaga aagcaagaga acaccgatgg ataattgtctc 120
aatcacttat taaccggtta cgagtaatat tgtgtggagc agtaccacag tgattcaagc 180
cttcctcggt attgatgatg aagaggatga gacctttatc atacaattgc tatgcgagtc 240
agtgcaactt acttaggtcg acaatcagct cacgtgcata gtatgcacca taatgacatg 300
agtcctgatc ctgcacgaac agcacttgaa cctggagcgt tagatcgcaa caaccacat 360

gacaggtgag tgctgactca agaaggggtcc gctaaggctc caaactgctg aagatcgac 419

<210> 11283

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-D7

<400> 11283

aaaaaaaaa aaaaaaaaaa aaattttattt aaagaaaaaa taaaaaaaaa aaaggaagga 60

aaaaaaaaata aaaaaaaaaa aacaaaaaaaaa taaaaaaacc taaacataaa aaaactgtcc 120

gtcctttttac agcatcctac cttcctaccg ctttcattgca acccaattaa ttttctttac 180

tgccccttaa cttaatttaa cttcccgctt tttcccaaca tctccactcg aaaaacctct 240

cccttcccca atttaattctc ttgcaaaaac atcccccttt ctccagcttt ccaattagca 300

aagaggcctt aacctatcac ccttccca 328

<210> 11284

<211> 204

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-D8

<400> 11284

aaaacaaaca aaaaatttct ttacaaaaaa aaacaaaaaa ataaaacaga cagattaaaa 60

aaataattaa cccaacccaa aacaaacaca aaaaaaaaaa aaaacaacaa aaaaacacaa 120

acaaaaaaaa aaactcaaaa aacaaaacac aaaaaaaaaa cacaaaacaa aaaccaaaaa 180

aaaaaaaaaa aaaacaaaca aaaa 204

<210> 11285

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-E1

<400> 11285

caacaagcaa catagaaagt ggaatccagt agcaacaata gagcaacaat ggagaccaag 60

atattttccc tccttatgct ccttgctctt tctacatgtg ttgctaacgc gacaattttc 120
 cctcaatgct cacaagctcc tatagcttcc ctttttcccc cataccttcc atcaattata 180
 gcttcagtat gtgaaaaccc agctcttcaa ccatataggc ttcaacaagc aatcgagca 240
 agcaacatac ctttatcgcc cttgttgtgt caacaatcgc cagccctatc tttggtgcag 300
 tcattggtac aaaccatcag ggcacaacag ctgcagcaac tcgtgctacc tgtgatcaac 360
 caagtagctc tggcaaacct ttctccctac tctcgcgaac aacaatttct tccattcaac 420
 caactgtcta cac 433

<210> 11286
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-E11

<400> 11286

ccttgctctt tctacatgtg ttgctaactc gacaattttc cctcaatgct cacaagcgcc 60
 tagagcttcc ctttttgccc cataccttcc atcaattata gcttcagtat gtgaaaaccc 120
 agctcttcaa ccatataggc ttcaacaagc aatcgagca agcaacatac ctttatcgcc 180
 cttgttgtgt caacaatcgc cagccctatc tttggtgcag tcattggtac aaaccatcag 240
 ggcacaacag ctgcagcaac tcgtgctacc tgtgatcaac caagtagctc tggcaaacct 300
 ttctccctac tcttcgcgaac aacaatttct tccattcaac caactgtcta cactgaaccc 360
 tgctgcttat ttgcagcaac aactattacc atttagccag ctagctactg cctactctca 420
 acaacaac 428

<210> 11287
 <211> 359
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-E12

<400> 11287

gtgagcggat cgagatggcg gcgtctgatg ttgagtaccg ctgcttcgctc ggcggggctcg 60
 ggtgtgccac ggacgaccac tccctccaca acgccttcag cacctacggc gaggtcctcg 120

agtccaagat catcctcgat cgggagacgc acaggtcccg cggcttcggc ttcgtcacct 180
tctccacgga ggaagcgatg cggaacgcca tcgacggcat gaacggcaag gagctggacg 240
gccgcaacat caccgtcaac gaggcccagt cccgcggcgg ccgtggatgc cgcggccgcg 300
ggtactgtgg cggccgtaga agcggccgat acagcagccg tcggcgccgt caaggccgt 359

<210> 11288
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-E2

<400> 11288

accactcga tctcaagaat caacatataa agttcaatcc tttaatatca atacagcaac 60
aattcatatc agcatgtttt cactacttat gtccttact ctatctacat atgttactaa 120
caccacaatt ttccctcaat gtcacaagc tcctataact tccctttttc ccccatacct 180
tccatcaatt ataactacaa tatcttaaaa cccaactctt caaccatata cgcttcaaca 240
aacaatctca actaacaaca tacctttata ccccttaata tatcaacaat cacctaccct 300
atcttttata caatcattga tacaaccat catatcacia caactacaac aactcctact 360
accctttatc aaccaattaa ctctcaciaa actttctacc 400

<210> 11289
<211> 428
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-029-Q1-K1-E3

<400> 11289

gggttggtt ctctccccc tccggttcgg gttcgggttc gtgagggctt tccgggttgg 60
gggtcctggg tgaacggatc gagatggccg cgtcggatgt tgagtaccgc tggttcgctc 120
gcggcctcgc ctgggccacg gacgaccact cctccacaa cgccttcagc acctacggcg 180
aggtcctcga gtccaagatc atcctcgatc gggagacgca gaggtcccgc ggcttcggct 240
tcgtcacctt ctccacggag gaggcgatgc ggaacgccat cgagggcatg aacggcaagg 300

agctggacgg ncgcaacatc accgtcaacg aggccagtc ccgcggcggc cgtggaggcg 360
 gcggcggtgg gtacgggtgg ggccgtggag gcggcggtta cggcggtggc gggcgccgtg 420
 atggcggt 428

<210> 11290
 <211> 429
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-029-Q1-K1-E4

<400> 11290

ggagcaggaa ggctgttgatg atccacgttc cataccgctt gcgcaaggcc ttcangaaga 60
 tccatgtcag gatcgtcagg gagctggaga agaaattcag cggcaaggat gtggtaattg 120
 ttgccacaag gaggatcgtg aggcgcacca agaagggttc agctgttcag cgccctcgca 180
 ccaggactct gactgctgtc catgatggca tcctggagga tgttgctctc ccagctgaga 240
 ttgtggggaa gcgtgtcagg taccgtctgg atgggtgcaa gatcatcaag atcttcttgg 300
 acccaaagga gaggaacaac accgaatata agctggacac ctacactacg gtctaccgca 360
 ggctgtgtgg gaaagatgtg gtctttgagt accctatggn cgaaaatgca taaatatgac 420
 gcccggata 429

<210> 11291
 <211> 389
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-E6

<400> 11291

cgcaaattgc accaagaaat ccatcgatag gccgtcgaca ggggaattaa tggggtcggc 60
 gtctagcagc agccaccgcc gcctcctcct cgcagccgcc gtctgtctct ccgtgctcgc 120
 ggctgccagc gccagcgccg ggacctcctg cgtgccgggg tgggccatcc cgcacaacct 180
 gctcccagc tgccgctggg acgtgaccag ccggacctgc ggcacgggc cgcgcctccc 240
 gtggccggag ctgaagagga gatgctgccg ggagctggcg gacatcccgg cgtactgccg 300
 gtgcacggcg cttagcatcc tcatggacgg cgcgatcccg ccgggcccgg acgcgcagct 360

ggagggccgg ctaaaggacc tgccgggct

389

<210> 11292
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-D11

<400> 11292

gggaagaaat gaaccttttg gcagaagttg atcaaccagg tagcctgatt gacaactagg 60
tggcccaact gagctttctg ctgtcacgca aggctgcagg cttggtcagc ctccaagcac 120
gcttggcacg gttccagcac cggctcaaag agcaagagat ccttagccgc aagaaacctc 180
ccagatagta tgatgatcag caatgactct gtccttgtgc cttgtaatct gattgcttgg 240
agctcagttg tgggccatca gctgtttttt acgtgtgcgc tccagtaaata tctatagccc 300
caagcaggcc aagacatgtg ggagtggctt aaggcggctc tgatgccgag ggcgtgggtcc 360
tggttgatat cacctgacac ttt 383

<210> 11293
<211> 434
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-029-Q1-K1-B6

<400> 11293

actgcactcc gccaccgccc tctacacctc gcgtctccac cgcccgggtg cagatgtcgg 60
cgccgcgatg ggctccgccc actcgtccgt ctccaccgcc ggccggcgaag acgaagaaga 120
cgacgaggat ccgtccgagg cagccgtttc ctccgcgggc gcacaggcgc caccgcccgc 180
tctgtcgccg tcgccggtcc gcgtgcccc ggctccgcg tccaaagtgc tggagcagga 240
gcccgagggtg ctgccgtgcc tcgccgagg ctcgccgtc tcgccgcagc cctcggcggc 300
gggcaccccc cgctctctcg cgggtcccg catcaaggtc tgggaccct gccacgttct 360
cctgcccccg ncgncgncgt ctccgcacgc agggaggcag gttgacgccg cgcccatcga 420
ggtcgttgtg gtca 434

<210> 11294
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-029-Q1-K1-B8

 <400> 11294

 cccacgcgtc cggatcaacc aagtagctct ggcaaaccct tctccctact ctcaggaaga 60
 acaatttctt ccattcaacc aactgtctac actgaaccct gctgcttatt tgcagcaaca 120
 actattacca tttagccagc tagctactgc ctactctcag caacaacaac ttcttccatt 180
 taaccaattg gccgcactga accccgctgc ttatttgcag cagcaaatac tactaccatt 240
 tagccagcta gctgcagcaa accgtgcttc cttcttgaca cagcaacagt tgctgccttt 300

 ctaccagcag tttgcggtta accccgcaac cctcttacia ctacaacaat tgttgccctt 360
 tgtccaactt gctttgacag acccagcggc cttctaccaa caacacatca ttggtggtgc 420
 cctctt 426

<210> 11295
 <211> 218
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-029-Q1-K1-C1

 <400> 11295

 cccacgcgtc cgcggacgcg tggggcagga gttgtgcctt gcgtgtttta agttgttcga 60
 ggggtgaactc ttgagttctc attgtctgga tcattctttt ctccttggat gtgttgcatc 120
 ttttgagtgt ggaaatggat ggtactctc gccatgaatt tgctggctac tttatacatt 180
 gctttgtaac tctgtttgat gataaacctt gttgtggc 218

<210> 11296
 <211> 416
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-029-Q1-K1-C10

 <400> 11296

attacatcaa ttacctttgg tgcatttatt ggcacaaaac atcagggcac aacaactgcg 60
acgactcgtg ctagcaaacc ttgctgccta cgctcagcaa cagcagttac ctttggtgca 120
attggttgga caaaacatca gggcacaaca actacaaca ctcgtgctag caaaccttgc 180
tgectactct cagcaacagc agtttctgcc attcaaccaa ctagctgcat tgaactctgc 240
tgcttatttg caacaacaac aactactacc attcagccag ctagctgctg cctaccacca 300
gcaatttctt ccattcaacc aactggcagc attgaactct tctgcttatg tacaacaaca 360
actactacca ttcagccagc tagctgctgt gagccctgct gncttcttga cacagc 416

<210> 11297
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-C12

<400> 11297

cccacgcgtt cggcaattag ctcacgact ccagattgga gaactcgaca ccatgaaggt 60
gctgatcgtt gcccttgctc tectggcgct cgctgcgagc gccgcctcca gtacaagcgg 120
cggctgtggc tgccagacac caccgtttca tctaccgctt ccgttctata tgccgcctcc 180
gttctatctg ccgccgcagc agcagccgca gccatggcaa taccctactc aaccaccgca 240
gctaagcccg tgccagcagt tcggatcctg cggcgtcggc agcgtcggca gcccgttcct 300
gggccagtgc gtcgagttcc tgaggcacca gtgcagcccg gcggcgacgc cctacggctc 360
gccacagtgc caggcgctgc agcagcagtg ctgccaccag atc 403

<210> 11298
<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-029-Q1-K1-C2

<400> 11298

cggacgcgtg gggatcagca aagcggcagt gcgtagagag gatcgtcgaa cagaacagcg 60
tgaagatggt catcgttctc gtcgtgtgcc tggctctgtc agctgccagc gcctctgcaa 120

tgcagatgcc	ctgccccctgc	gcggggctgc	agggcttgta	cggcgctggc	gccggcctga	180
cgacgatgat	gggcgcgggc	gggctgtacc	cctacgcgga	gtacctgagg	cagccgcagt	240
gcagcccgt	ggcggcgggc	ccctactacg	ccgggtgtgg	gcagccgagc	gccatgttcc	300
agccgtccg	gcaacagtgc	tgccagcagc	agatgaggat	gatggacgtg	cagtccgtcg	360
cgcagcagct	gcagatgatg	atgcagcttg	agcgtgccgc	tgccgncagc	agcagcctgt	420
acgagccagc	tctga					435

<210> 11299
 <211> 312
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-029-Q1-K1-C4

<400>	11299	
gccacacctg	cctgtacgca	tgcaaccatg cctacgctac tcgtagatct cactatcaag 60
gctgtgaacc	acgttactta	tgacacggac aagatactac taccattcaa cgacgacgat 120
gcaccaaaga	tcgctatctt	cactacactg gatcacttag ttcttgtcta atacgactta 180
acctttaaca	cctaccccat	gttactgata cagaacatgg tgaccattga gcaagacgca 240
ttcaacaacc	tagcacactc	gtacctacaa ctcataattg acgagggcct gtcttagatg 300
gacctgagc	tg	312

<210> 11300
 <211> 432
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-029-Q1-K1-C5

<400>	11300	
cggacgcgtg	ggctcgccca	gctcacgggc tctacgcct tcgtcctctt cgacgaggtg 60
caccaactcc	ctgctagtcg	catctgaccc cgagggcagg gtgccgtctt tctgggggat 120
caccgccgac	ggctgcgtcg	ccttctccga cgacatcgac atgctcaaag gctcatgcgg 180
caagtcgctc	gcgccgttcc	cgcaaggctg cttctactcc aacgccctcg gagggctcaa 240
gtgctacgag	aacccaagc	acaaggtcac cgctgtcccc gccgacgaag aagagatctg 300

cggtgccact ttcaaggtgg tggaagggtc tactgtcctg acggcgctgc actgatctat 360
catcatcagg cggaggcgat gcgatgatga tgcagaactt tgtacatgcg ttggtggatg 420
gtggtgtaac at 432

<210> 11301
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-C6

<400> 11301

cgggcgcgctg gggccgacgt gacatcatta gcgtcagccg tcacgcgagc cctggagcgt 60
tacgacaccc cggcattcca tgagatgggt cagaactgca tggcgcaaga cctgtcctgg 120

aaggggcctg cgaagaagtg ggaggaggtg cttctgggcc ttggagtcga ggggagtcga 180
gctggtatcg acgacgcaga ggagatcgcc ccacttgcca aggaaaacgt agccactccg 240
tgagggcttg gtggtgcctc ggactcgga acacgcgttg gtgataggaa gcgtcttggtg 300
ggagcctcct gcgcggtctt gaggctgggt gagtgaggtg ttcagcctga cactgtttcc 360
tctctactac cacagtacca ctactacttc attgtcatat aatccctagg cattctcaaa 420
aaagccatgc ct 432

<210> 11302
<211> 432
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-029-Q1-K1-C8

<400> 11302

ggaggcctag ccgcctaggg tagtcccgtc cggctctccg cggccagcga cggggtgcgt 60
ggcgccggcg aatcgatggg ctactggtgg caccgcgtcg tgctgccggt gcggcgggcg 120
tggctcggcg tcgcgtcccg cttcgggggt cgccaaaccg ggctgtggag gctgcggcag 180
gaggtgagca cgtgcgagta cgaggacgtg cacgtgatgt gggagatgct gagccgcacc 240
acggcgccgg cgcccgcgcc cactaggcgg cagcacagtc ggttcgggcc gcagccgcag 300
ccgcggccgt gggcgacag gttcgcctc tgccgaggct tctagtagac caaggccgcc 360

gccgccgccg ccgccgccgn cgnccgncgnc ggcgncgcgc gtgtcagctc cgctgctgtt 420
gctgcgggat ag 432

<210> 11303
<211> 299
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-C9

<400> 11303

cccacgcgtg cgcccacgcg tccgggggttg gcttctctc cccctccggt tcgggttggg 60
gtgcgtgagg ttctccgggg ttcggcttcg cgggtgagcg gatcgagatg gcggcgtcgg 120
atgttgagta ccgtgcttc gtcggcgggc tcgcctgggc cacggacgac cactccctcc 180

acaacgcctt cagcacctac ggcgaggtcc tcgagtccaa gatcatctc gatcgggaga 240
cgcagaggtc ccgcggcttc ggctttctca ctttcttcac cgaagaggcg atgcggaac 299

<210> 11304
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-D1

<400> 11304

gcgccatccc tcaactctct ccgaagccat cgtccacgtc ccagcctccc cggactctga 60
ggggcagaag ctgcagcgtc gagatggtga aggggcgcac ggggcagcgc gtgaggctct 120
acgtccgggg caccgtcctt ggatacaagc ggtccaagtc gaaccagtac gagactacgt 180
cgctggtgca gatcgagggg gtgaacacca aggaggacgt cgcgtggtac tgcgggaagc 240
ggatggccta catctacaag gccaagacca agagcagcgg caccactac cgctgcatct 300
ggggcaaggg tcgccgcccg catggcaact ccggcgctcgt 340

<210> 11305
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-B5

<400> 11305

gaagcaactg ttgaaatggt cgaacaagta gttcagcaag tttggtgcta ttaaagctgg 60

gggtgtacaa gtcaaagcc agcctgatca gttttgcttt ggctttgtcg aatttgagtc 120

tcagcaatcc atgctagcag caatcgaggc ttctagggtt tatttcggca caagagaatc 180

atatgttgag gagaaaagaa ccaaaacacg agttgttgat ggtgttatca cccgtgggga 240

tgacaatggc aatggcgggtg gcggtcgggt ccattctggc agaggtgggtg gttactatgg 300

ggacggctac aagcggcagt ggggcgggtca gaacaacggg tactacaacg gcggggataa 360

catgaggaac gactactcat gtcgtgtccg tggaccgcaa gggaac 406

<210> 11306

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-D10

<400> 11306

caacaagcaa catagacagt ggaatccatc tagctacaat acagcaacaa tggcgaccag 60

gatattttcc ctcccttatgc tccttgctct ttctgcatgt gttgctaacg cgacaatttt 120

ccctcaatgc tcacaagctc ctatagcttc ctttcttccc ccataccttc catcaatgat 180

agcttcagta tgtgaaaacc cacctcttca accctatagg ctccaacaag caatcgcagc 240

aagcaacata cttttatcac ccttgattca acaatcgcca gccctatctt tgggtgcagtc 300

attggtacaa accatcaagg cacagcagct agcatcaact cgtgctacct gtgatcaacc 360

aagtagctct tgcaaaccctt taccctact ctgagcaaca acaa 404

<210> 11307

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-H8

<400> 11307

cgagccacgc gttcgtctctg ctaccgatcc atgtacattt gccgagcgcg gtagatctcc 60

gttcggcagc gtgtgatctg accgatccgt gcggttgggt ctggatcggg tggatgaaggt 120

agcggtcgcg gaagaagatg gggctcgcgt tcggtaagct cttcagacgg ttctttgcca 180
 agtatgagat gctgattctt atggacggtc tctactccta cggtaaaacc accatcctct 240
 acaatctcaa gctcggcgag atctgcacat ccatccgcac catcggtttc aatgtttaca 300
 ctgctgactg caagagcatt atc 323

<210> 11308
 <211> 394
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-H9

<400> 11308

ctcaagagtg atccaatgtg caatgcttgt gagatggctg tggatatggat gcagaaccaa 60
 cttgcccaga acaagacaca ggagctcatc ctgaactaca ttaatcagct ttgcgagcgt 120
 cttccgagtc cgatgggaga atcagccgtg gactgtggca gtcttgcgtc catgcctgac 180
 attgcgttca ccattggagg caagaagttc aagctgaaac cagagcagta cattctgaag 240
 gttggtgaag gacaggtgct ccagtgcac agcggattca cagctatgga tatcccacca 300
 ccccggtggc ctctctggat cttgggtgat gttttcatgg gagtctacca caccgtcttc 360
 gactatggca agctgagggt tggcttcgca gagt 394

<210> 11309
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-A1

<400> 11309

gtcgtcacca gcagggtgtc ccggccctct ctagtttcta ccccggtccc caacattggc 60
 ctgatgctgc tgccatgtag ccagcgcctc cccctcggc ttcaccggcg gcggcggcaa 120
 cgacggtgaa aactacatcg ggtgctagct ccgacggtgg tgcgtgcctt gttgacgata 180
 gggcacgcgg ggcgcgggca gcttctaagc gttcgatcgg ccatgtaggg caactataca 240
 tctttggcag gtctccaact ctccatcatc ctccgtggga gagaagatgg taatggagtg 300
 cgtgtgtatg tatgtggatg ccaggggcgc gcgcgcgcgg ctctgggcca gtcacagtag 360

agatgcaata tcatgtatcc agtatctttc ttacaacaca aacagggaga aattattagt 420
aaagtgtgca ttg 433

<210> 11310
<211> 413
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-029-Q1-K1-A10

<400> 11310

cgcaaattggt aaaacgcttg ggaaacacaa ttcagccctg gcctttttcc agttgagtgc 60
acgtcttggc tcttgccctcc tgcattctcta gagaggcaca tcccagctcc aagcttcgcg 120

ccttggttga tcgtggcgct caagcaacgg tggtagcgga gcgcgaggca gtggccgcag 180
aaggaagcgc gaagcatcca tggaccaacg ccaggtgggt agcgagaatt atgccaatcc 240
cataacatgc ttcttccatg tgctattcaa ggcggngggc ctagccttct acatcctatt 300
ctcgtctttt gtgaagagct tcgtcatcat cttcgtgatc acggtgctcc tcgcagcgct 360
tgacttctgg gtggtgaaga acgtcagtgg caggatacta gtcgggctgc ggt 413

<210> 11311
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-A11

<400> 11311

cttgctcggg tcgcccctc cgccgacacc gactgcctac ctcagctgcc gtcgccatgg 60
gcggaaagcc tgctagatgc tatcgccaga tcaagaacaa gccgtaccct aagtccaggt 120
actgccgtgg tgtccctgtc ccctagatca ggatctacga tgtcgggatg aagaggaagg 180
gtgttgatga gttcccctac tgtgtgcacc ttgtctcttg ggagaaggag aatgtctcca 240
gtgaggcgct cgatgctgcc cgcattgact gcaacaagta catgaccaag tctgcaagaa 300
aagatgcctt ccaccttatg gtccgggttc acccgttcca tgttctccgt atcaacaaga 360
tgctt 365

<210> 11312
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-A2

<400> 11312

gaacaatgca catgttccat atgcatttcg aatggggttg atttcagatg aattggttga 60
 gaggttagtt actacatgta atggaaagta ttggaataac tccaatccat catgccaaga 120
 gaacatggag caattttata ctcaaatacat aggtattaac atggagcata ttctatgtcc 180
 gccgtgtcga tacaagatgg ggataaccaa tcaattcatt gaatatgatt ctggtcaaat 240
 gtttgagagc ctttcgaaaa cctccaagca tgggttagaa tgcaatgatc aagagttggc 300
 ccttgagaaa ctctttgata caagatcagg tagagaaaaa ttgcatgcca aaaaggttga 360
 agtatcagga ccatggaaga ggtgccccaa gcgtgttctg tacacgaggg atattctaac 420
 attgatagag ta 432

<210> 11313
 <211> 356
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-029-Q1-K1-A3

<400> 11313

gccaatgca aacaacaagc gcttgcggcg agcgtcttac aacaaccaat tgccaattg 60
 caacaacaat ccttgccaca tctaacaata caagccatca caacgcaaca gcaacaacag 120
 ttctaccag cactgagcca cctagccatg gtgaaccctg ccgcctactt gcaagagcag 180
 ctgcttgcat ccaaccact tgcctctggcg aacgtagttg caaaccagca acaacaacag 240
 ctacaacagt ttctgccaac gctcagtcaa ctagccatgg tgaaccctgc cgnctacgta 300
 caacaacaac aactgctttc atctagcccg ctgcgtgtgg gcaatgcacc tacata 356

<210> 11314
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-A4

<400> 11314

gtgcactgaa gaagcctgga ggagatgaaa tgctgatagg catttctcat aagccatcgg 60
gccatacatc tcatctagca tttcctgggc aaacctctgc aacaaattct gatgtccgag 120
ttcacactaa agctgttact tttgaagacg acaaatatgt agttagtctg tcaaagtctc 180
ctcccttgct actggattct atacagtctg atcctgtgct caagaattct tcagaccccg 240
ctctatctcg tgacagaaaag ataatatcaa gtggacgaaa ggcctttaca ggatctatca 300
ttgagcacga cgacaatgtt tccaccattg aaccttctgt ggctagtctg ttggcaaaac 360
ctgggtacttg tgcttcttca aggcccgagt caaggttcaa gatgcagaaa ggagggcggc 420
gagtctggac act 433

<210> 11315

<211> 252

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-A5

<400> 11315

gacgcactca tccggggcgc cctttttttt tttttttttt ttttctgctc tctgagctca 60
tcttttctag tggaacttaa atatgattac aaccaaataa cgtcaaaata tagaaaacat 120
agcattgtca cattcaacta cgatatgcat tgctcaacat aactttgcta agtagtacac 180
atatgcttac actcttgttt catacaacaa cacaataatg atctttcgct catacacaaa 240
catgataacc at 252

<210> 11316

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-A6

<400> 11316

cctggctctc gctgcgagcg ccacctttac gcatacaagc ggcggtgctg gctggcaagc 60
accgccgcg gttcatctac cgccgccggt gcattctgcca cctccggttc acctgccacc 120

tccggtgcat ctcccaccgc cgggtccacct gccgccgccg gtccacctgc caccgccggt 180
 ccatgtgccg ccgccggttc atctgccgcc gccaccatgc cactacccta ctcaaccgcc 240
 ccggcctcag cctcatcccc agccacaccc atgcccgtgc caacagccgc atccaagccc 300
 gtgccagctg cagggaaacct gcggcggttg cagcaccgcc atcctggggc agtgcgtcga 360
 gtttctgagg catcagtga gcccgactgc gacgcctac tgctcgctc agtgccagtc 420
 g 421

<210> 11317
 <211> 177
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-A7

<400> 11317
 gcgtgattta gttcttcatt aagtaagggt caaaacattg tcaaacatt atcaagagcg 60
 tatgttacca caatgccac caatttaatc gggcataagc accgtaccac acagtctaac 120
 ggtgacattg ctctgacgt acgtcacgt cctgagtcta caaaacacta taccttg 177

<210> 11318
 <211> 316
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-A8

<400> 11318
 gtcagcatcg tcgtcgtcga cctcaagcac agggactgag tcagtgagtg agtgggggga 60
 tccggtttct gatcctgcag cgcacagcg taatcgatct agggctgagc tgaactgata 120
 ctgtgaggag gtgatcgtct agatcgtcta gacctttgac atttccttg ttttttcgat 180
 tctaagatat aagatttgta gcctaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaca caaaaataaa aattagcggg 300
 ggggcgactc ctatta 316

<210> 11319
 <211> 333

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-029-Q1-K1-A9

 <400> 11319

 aacaaatgga gtgactccca ggcgttggat cgggttttgt aatcctgcat taagtgcatt 60
 aatttcaaag tggattgggt ctgatgactg ggtgcttaac acagacaaac tggcagaact 120
 gaagaagttt gctgataatg aagatctgca ttcagagtgg cgtgctgcta agaaggctaa 180
 caaaatgaag gttgtttctc ttataaggga gaagacagga tatattgtca gtccagatgc 240
 aatgtttgat gtgcaggatga aaaggataca tgaatataag cggcagctgc taaatatact 300
 tggaattgtc taccgctaca agaagatgaa gga 333

<210> 11320
 <211> 382
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-029-Q1-K1-B1

 <400> 11320

 cccacgcgtc cgacgcgcta gacaagcacc ttgagaggcg gtcgcatcgc cgtccacgtc 60
 gaggggggtca gcgggcgggcg gcgggtgtgcg cgaccaccac cgcctcgtcg tgccgtcctc 120
 cgtgtcgtcc atccccaaagg gccgctgctc cgaaggggag tctgattctg atagtgaagc 180
 atcagatgtt agtggctctg atggagaaga cacctcgtgg atttcatggt attgcaactt 240
 aagaggggaat gagttcttct gtgaagtcga tgatgactac attcaagacg acttcaacct 300
 ttgtggcctc agcagccaag ttccttatta tgattatgct ctggatctca tnttagatat 360
 tgaatcatct catggtgata tg 382

<210> 11321
 <211> 233
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-029-Q1-K1-B11

 <400> 11321

aggagaagaa ccctaagaac aagtcttttag tttcgggtggg gaaagctgct ggcgagaggg 60
 gttaatccct gagggagtca gacaaagctc cctatgtagc caaagctaac aagctcaagc 120
 tcgagtacaa caaggccatc actgcctaca acaagggcga gagcactgca gctaagaagg 180
 ctcttgccaa ggaggaagaa gaggaagatg aacacgaata tttcaagacc aaa 233

<210> 11322
 <211> 390
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-029-Q1-K1-B12
 <400> 11322

ggacgtcagc ctagcaatta gctcatcgac tccagattgg agaactcgac accatgaagg 60
 tgctgatcgt tgcccttget ctcttggcgc tcgctgagag cgccgcctcc agtacaagcg 120
 gcggctgtgg ctgccagaca ccaccgtttc atctaccgcc tccgttctat atgccgcctc 180
 cgttctatct gccgccgag cagcagccgc agccatggca atacccact caaccaccgc 240
 agctaagccc gtgccagcag ttcggatcct gcggcgctcg cagcgctcggc agcccgttcc 300
 tggggcagtg cgtcaggttc ctgaggcacc agtgcagccc ggcgggcgacg ccctacggct 360
 cgccacagtg ccaggcgctg cagcagcagt 390

<210> 11323
 <211> 317
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-029-Q1-K1-B2
 <400> 11323

gcgcgacaac ctgatcgcta ggcacaccaa ccttgactgg tacaaaagcc caaccctgag 60
 tgaggctctt gaccagatca ccgagcccaa gaggccttca gacaatcccc tgcgtgtgct 120
 cctccaggat gagtacaaga ttgctggtat tggaactgta ccgggtggcc gagtggaaac 180
 tgtagtaatc aagcctgtta tggtaatcac ctttgggtcca actggactga ctaccgacgt 240
 gaagatctga tgagatgcac cagcaggcac ttgatgacgt tcttccggac gacaatgatg 300
 gcttgaacct gaagaat 317

<210> 11324
 <211> 282
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-029-Q1-K1-B4

 <400> 11324

 caggagcttc tgcttgctct ggggggaatg agatagagag agagcgagag agagatctgt 60
 tggggatgct agtaggcggt cctagaacga acaagctcgc ggtgttcacg gggcaggctg 120
 tcgaggtgcc catgccaaact ggtcgcgctg cttcaaaccg gactccgtac tccaagacga 180
 aagcagtaga attggtggtg ctcttcctag aaccatccga gccaatcgca tgcctacaga 240
 tctgagacca cagtcacctc acctactacc acaccaacca ct 282

<210> 11325
 <211> 376
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-028-Q1-K1-H7

 <400> 11325

 gcgaggaacc ccgtgttttg cgtggagaag gcaagtcggt caacgctcgt cggatgcggg 60
 gagcgatgca caaatcgga tgcgccatcgt ccttaciaaac atcgattggg tttattttatg 120
 gtgagccgat gtatgtcgtc ctcggtcgac tcgattaatt attttgaatg gatgtgtgta 180
 aaatgtttcg gttatgcgca ttggtaggat cgcgtttgct attggagaac aagagattat 240
 ttgatgtgtg cgaattgtag tgagtctaata taggttttga tcgatgaagt gcacgtgtga 300
 ttatgtgtgt gaaaaaaaaa aaaacataat acatcgcaat gaaatgagct acaggacatg 360
 aaaaaaaaaa gggcgg 376

<210> 11326
 <211> 383
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-028-Q1-K1-G10

 <400> 11326

gggaacttca atgagtatatt tggctttgcc accgatgtag atgcagtggg ttacttgatg 60
 ctggtaaatg atctaattca tggactttat cctgaggctg taaccattgg tgaagatggt 120
 agtggaaatgc ctacatttgc ccttcctggt cactgatggg gggtagggtt tgactatcgg 180
 atgcatatgg ctgtggctga caaatggatt gaccttctca agcaaagtga tgaaacttgg 240
 aagatgggtg atattgtgca cacactgaca aataggaggt ggtagagaa gtgtgtaact 300
 tatgctgaaa gtcattgatca agcattagtc ggcgacaaga ctattgcgtt ttggttgatg 360
 gacaaggata tgtatgattt cat 383

<210> 11327
 <211> 364
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-G12

<400> 11327

cgaaacccgc tcgcgttttc ttctttcaga aaacgaaatc cactcaggag cgaggaggga 60
 gggacagacg agggatagat cctcgggctt cactcctaca caaccattcg tcccgatccc 120
 gaccagcttt gagatcgca tggctgacgg ccgctgctgc accttactgg agatcctctt 180
 cgccatcatc ctcccgcctc tcgtcgtctt cctccgattc ggctgctgca gaatagagtt 240
 ctgcatatgc ctgctgctca caatccttgg atactaacgc ggaatcatct acgcgatcta 300
 tagacgtgct gctcttgact ctgaccatca cgagatggaa tactacaccc ttgcttagag 360
 catc 364

<210> 11328
 <211> 336
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-G2

<400> 11328

cggacgcgtg ggcgggctgg caagacagac tacagggcca ggataaggct gattaacgaa 60
 gacaaaaaca agtacaacac acccaaatac agatttggtt tgcgatttac caacaaggac 120
 atcactgccc aaatcatatc tgctagtata gcgggtgata tggttcttgc ttctgcctac 180

tcgcatgagt tgccacgata tgggtcttgaa gttggtctga ccaactatgc agctgcctac 240
 tgcactggcc ttctgttggc tcgccgtgtg ctcaagatcc gtggtttgga tcaggagtac 300
 gagggcaatg ttgaggccac tgggtaggac ttctct 336

<210> 11329
 <211> 287
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-G3

<400> 11329

ccgcatcaag gaggggaaggc agctagttaa cattccctcg gtcatggaca aggtccaagc 60
 agggaaacac attgacttat acctcaacaa ccctttgggt ggtggctctg cccgaagggt 120

taaaccgaag aaacagaaaa aaggcttatg gggccgctaa gcttaagaag acgaagagta 180
 taaggccaac ttaggattct gcgaccggaa atggttgaaa tgctaagtgg aaactttaaa 240
 tgggtgtgcc gaatgagtat ggtcattgga aagaattcca aaaatct 287

<210> 11330
 <211> 211
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-G4

<400> 11330

gtgatgctcg gaccactga aagcacatga tataaaaaat ctacttaggc gtgtaacatt 60
 gaccgagcat ctgaagtcac tgttacacgc ctagtagtat tttttgttca gacccaacga 120
 aagcaatgga aaaaaaaatc tactatgcgt gtatcagtac ccatcgtctg agtcactgtt 180
 actgatttgc cttgcaaaat agaataaaac t 211

<210> 11331
 <211> 412
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-G6

<400> 11331

gaccaacaag caacatagaa agtggaatcc agtagcaaca acagagcaac aatggcgacc 60
aagatatttt ccctccttat gctccttgct ctttctgcat gtgttgctaa cgcgacaatt 120
ttccctcaat gtcacaagc tectatagct tcccttcttc ccccatacct tccatcaatg 180
atagcttcag tatgtgaaaa ccagctctt cagccctata ggctccaaca agcaatcgca 240
gcaagcaaca tacctttatc acccttggtg tttcaacaat cgccagccct atctttggtg 300
cagtcattgg taaaaacat cagggcacag cagctgcagc aactcgtgct acctgtgatc 360
aaccaagtag ctctggcaaa cctttcttcc tactctcagc aaccacaatt tc 412

<210> 11332
<211> 118
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-H1

<400> 11332

ctcgtgcggc atagccatcc ccaatgctaa gcaagcgctc tgcgtcgtcg cttcgtctggc 60
tcttgctctt gtgtgtaaca tatccagctt atgaataaat tatgtggatc agttaatt 118

<210> 11333
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-H12

<400> 11333

gggaaagggtt atggaagggtg cggatgaaat tgagattggg caagttgact gtggtgtgag 60
caaaccagta tgctcaaagg tcgatataca ctctaccca acattcaagg tgttttatga 120
aggcgaagaa gtagtaaaat ataaaggacc tagggatgtg gaatcgctga agaacttcgt 180
gttgaatgaa gctgagaaag caggcgaggc aaagcttgaa gctgattgag gcaggggagt 240
ttcagcaagc atgtggcgag tggcgtagac aaggaacaat gctttgcaac attgtcttct 300
atcctgtcat ttacaaagcc agtttacagg aaagaaatga ccttatgagc tcgtatcaga 360
gtattcctct taaaaagtaa ctccgaatca gttcatagaa gctgtac 407

<210> 11334

<211> 350
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-028-Q1-K1-H2

 <400> 11334

 gtgggttggc ttctcctccc cctccggttc gggttcgggt tcgtgaggtt ctccgggggt 60
 cggtttcgtg ggtgagcgga tcgagatggc ggcgtcggat gttgagtacc gctgcttcgt 120
 cggcggcctc gcctggggcca cggacgacca ctccctccac aacgccttca gcacctacgg 180
 cgaggtcctc gagtccaaga tcctcctcga tcgggagacg cagaggtccc gcggcttcgg 240
 cttcgtcacc ttctccacgg aggaggcgat gcggaacgcc atcgagggca tgaacggcaa 300
 ggagctggac ggccgcaaca tcaccgtcaa cgaggcccag tcccgcggcg 350

<210> 11335
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-028-Q1-K1-H3

 <400> 11335

 cccacgcgtc cgcctttctt ctctctaatt cgtgatggtg aagctttgtc ggatatgaga 60
 gtacggattc agaagagact tcaagttcct gatgagcagt ttctaaagtg gaaatttgct 120
 catgttacat tcagtaagcc agaatacctc caagattcag atattgtaat gaacagattc 180
 cataaacaga gacctgttta tggaggttgg gaacaacacc ttggattgga gcatacagcc 240
 accaccccaa aaaggtccta cttaggcaac aaccagaacc gccattcttt tgagaagcct 300
 gtgaggattht acaactaaag ctaggaatac tttttacatg cgatgaatga tgaacaggat 360
 atgaagcagt cttgttccaa aagcagtctt ttggtgatgt acatggagct tt 412

<210> 11336
 <211> 183
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-028-Q1-K1-H4

 <400> 11336

caactggtgt	atatgaaact	ctggagttga	aggatggtgg	ctctgactat	ttggggaagg	60
gtgtctccaa	agctgtgaac	aatgtgaatt	ctgttattgg	acctgctctg	attggcaagg	120
accctacagc	acagactgag	attgataact	tcatggttca	acaacttgat	gggaccaaaa	180
atg						183

<210> 11337
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-028-Q1-K1-E5
 <400> 11337

tggtctgacc	gacgcatgcg	tgcacacagg	ggtcagcatt	cacaaccata	ctacgccaat	60
cgcaactcgca	acgacctagc	agcattggct	accaggtata	ttataccatt	cttgcgtctc	120
gttgcccttt	tagtgagcgc	gataaatgcc	tacattatct	cacattgctc	actcagctcc	180
tacagccatt	attgcacaga	tacttcaaca	acttacttca	atgacctact	agcatccaca	240
cgcgctagcc	tacaggetac	tacttgcaac	tgccctgagc	gccttacaat	agccagtcgt	300
atatttgcag	caacaattgt	tgcaacatat	aacgctacaa	ccgatggaga	cgcatcagct	360
acctctgcac	aacctggcat	ctctgagcca	cctagctgcg	tagtatc		407

<210> 11338
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-028-Q1-K1-E7
 <400> 11338

gcgtttcaag	aaagcagatg	ctggcgaggc	tggtatgtgtg	catgggagga	agagtgggtg	60
aggagcttat	atttggggaa	agcgaggtaa	ccaccggttc	ctcgtctgac	ctaaactacg	120
cgactaggct	ggcaagagcc	atggtgacca	agtatggtat	gagtaagcgt	gtgggtcttg	180
tttcctacag	tgagaatagt	gttagcggcc	aaacaagtgt	gattgataag	gaggtgaagg	240
aaattctgga	gaaggcgtac	aataacgcaa	aggcaattct	gacaactcac	gataaggagc	300
ttcatatgct	agcgaacgcc	cttcttgagc	atgagacact	gtctggagcg	cagatcaaga	360

aattactgcc acaggtggac aatagtaaca ataagcagaa gaaggctgcc aaggtgccgc 420
agaagacacc ggcagcc 437

<210> 11339
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-E8

<400> 11339

gcgccatggt cgccgcccgc gaccgcgacg actggatcaa cagcgtcgtg gccgggctag 60
gcaccggcgc gctcttccgc gccgctaacg ggccgcgctc ggcggtcgtc gccggggccg 120
ttggtgggggt tcttctgtggc gccgcccgcg ctgccaaagca ggttggaag agatacctcc 180

ccgccctcta aatctgattg cggtacttgt ctctgccctg ccatgccgtg atcaaggaa 240
atcatttcgt cgcgtaggatg ttattttctt gttctcgtta attatttggg aagagtcag 300
ttcttctcga cattcctata tattgttgac atccatatgc tggtagtata tatgtcaaag 360
aacgatctga tctcaccaga tcacgaaatt ttg 394

<210> 11340
<211> 414
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-028-Q1-K1-E9

<400> 11340

acgacttctg ccagtgctg agcatgcagc aactgtaccg gatcagcacg atgtactgcg 60
acgacaagtt tgggaccctg ggcatccat cagaagtcgt ctccagcatg cggaccaaga 120
tgategaggg ctctcgcgagc agcccgtcgg cgcacgacga catcaactcg ttctgctag 180
acgatgactt cagcataccg ttctccgtgg atgacttcac gaagctgata gtgcacgtcg 240
acgtagcgga catggatttg ccaccgctca ttcaggagag cagcggcggc ggctccaaaa 300
tgggacattg aggagtgaca atatgcacgc cttttttgtg tgtgttgagg tgatgtgcat 360
agtgcgtgac atattgctct gagaccagng ttttgttttt ttcttcgtcg actg 414

<210> 11341
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-028-Q1-K1-F1

<400> 11341

ctacaaacac agaagaattt cagagttgat cacctttctt ttccattcgt aaattgttgt 60
tcattggttt cagctttcct gcttatecct actactctat aagcacggtg tgtaggcgtn 120
cacaccgtgc accatgttct tagtntnggt agaattcttt gtcttaaagc tgactggaaa 180
cctcagctta ggggccctga tgctcgggga atcaaggaa atatggcaca actattgtcc 240
ctgggtctgta tgcaccagtt catctacatt tctttgttgc tcgtatggac atggcttgtg 300
attgcaaatt gaatgagggt cataaccagg tgggggttgc catctatttg cacctttttt 360
aattgatcag attgccact aaaatttgtt tgcaatctaa atgggaccac aacgaaacga 420
attctaact 429

<210> 11342
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-F10

<400> 11342

cggacgcgtg ggtctgactg cacctgaaag tttacaactg tatcttgata cacgtgtgga 60
gcagcttaaa gttgctacag aactctcctt ttggcaggaa gccttccgat cgggtggaaga 120
tatccatggt ttgatgacca tgggtgaagaa aatgccaaaa ccatctatcc tgggtggtcta 180
ttatgcaaag ttgactgaga tcttctggat atcggacagc cacttatatc atgcgtatgc 240
gtggctcaag cttttcaact tgcagaagag ctacaataaa aacttgtctc agaaggatct 300
acagttaata gcatcttctg ttttacttgc tgcactatcc gtgtcacctt atgacaaaaa 360
atatggtgca tttgagacag agaatgagaa agagcgcaac atgcgtc 407

<210> 11343
<211> 393
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-028-Q1-K1-F12

<400> 11343

ccacaccacc agatctgctg cgtccgcgc agaggacgag agcaacttca tcgggatggg 60
ggcgggtggtg acggcgggtga tcgcgatcgc cgcgggtggtg ctccggtgga tcaccatcga 120
gatggcatgc aagccctgcc tcgagaccgg ccgacgcgcc atggaccgcg cgtccgaccc 180
caaccacgac cgggactccc ccaccaacgc cgccggcgcc tccgccaacg agccgctcct 240
cgccgacctc tccgctcca ccgcgccacc cgcaaaggcc atctgaatct catcacctcc 300
cagagcgagc cagaggcgga ccaccctttt ccctcgcct tgtaatcttg cttctttcta 360
tgtcattntg tgcttatgag tttgctatta atg 393

<210> 11344

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-F2

<400> 11344

cccacgcgtc cgcccacgcg tccgagagat ttggaaagt tccagagaatt ttttggaggt 60
ccagcgttcc gggctgatgg tctgaagatt tatccaacac ttgtgattcg tggaactggt 120
ctttatgagc tctggaaaac tggcagatat agaaattatc cacctgagct gttggtggat 180
attgtggcaa gaattctgtc tttggtacca cttggacac gagtgatcg ggtccagaga 240
gatattccta tgccctcttg tacttctggt gtcgagaaaag gtaaccttcg cgagcttgct 300
ttggctcgaa tggaagatct gggcttaaaa tgccgggacg tcagaacccg tgaggcaagg 360
attcaggata tccatcacia gatcc 385

<210> 11345

<211> 379

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-028-Q1-K1-F3

<400> 11345

cgaagggact cactttatga ttccatgggt tggaccaccc atcatttatt atgggtccggg 60

ttgaaccgat tttggtgaaa agtccttctg gaattcggaa tctcaaagt gaaaatgtct 120

ccggtccttc aaggctatgc caaagctcca ctattacgac tctggagaga acttaagtga 180

agagtttgcc ttcaatcatc catgaaacac tgaaagctgt tggtgctcaa tataatgcta 240

gtcagctgat cacacagaga gagactgtga gtagggagat taggaagata ctgactgaga 300

gggctagatt cttcaacatt gctcttgatg acgtctncat cacaagcctg agctttggaa 360

aggagttact catgccatt 379

<210> 11346

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-F4

<400> 11346

caattcttca accctacagg atccaacagg caatcgcagc aggcattctta cctttatgac 60

cgttgttctt ccaacaaccg tcagccctat tacagcagtt acctttggtg catttggttg 120

cacaaaacat caaggcacia caactacaac aacttggtgt agggaaacctt gctgcctact 180

ctcagcaaca gcagtttctt ccattcaacc aactggctgc attgaactct gctgcttatt 240

tgcaacaaca actaccattc agtcagctag ctgctgccta cccccagcaa tttcttccat 300

tcaaccaact ggcagcattg aactctgctg cttatttaca acagcaacag ctaccaccat 360

tcagccagct agctgatgtg agcccttggt ccttcttgac acaacaa 407

<210> 11347

<211> 195

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-F5

<400> 11347

accactcat cgcgccactc atccacacac tcaaccttca tatccacaca tccatcatca 60

ataaccgtcg cactatttaa aaattttaca cgactatcca tctcactcta tctatcatac 120

aacaacatca acaaccaccc acatacaaac tacaaccata tcaaaccat actcccatat 180
 atacacaaca acaca 195

<210> 11348
 <211> 114
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-F6

<400> 11348

ccaacaaccc atcattggtg gtgccctctt ttagatttct tatgagttat agttgaataa 60
 taaagttttt tatctgatgt ttgtggcttc ccagaaataa gaaagtacat ttct 114

<210> 11349
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-F7

<400> 11349

ctgggatacc gcagggcaag agaagtttgg tggcctcagg gatggatact atatgcatgg 60
 ccagtgtgcg atcatcatgt ttgatgtaac ttcaaggctt acttacaaga atgttcctac 120
 gtggcatagg gacctgtgca gggctctgtga aaacatcccc attgtcctct gcggtaataa 180
 ggttgatgtg aagaacaggc aggtcaaagc caagcaggtt actttccaca ggaagaagaa 240
 tctgcagtac tatgaaattt ctgccaagag caactacaac tttgagaaac ctttcctgta 300
 ccttgcaagg aagctggctg gtgatccgaa ctttcacttt gttgaagctg ttgctcttaa 360
 gcctccggaa gttaccatcg acatggctat gcagcagcag catgaagctg 410

<210> 11350
 <211> 359
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-F8

<400> 11350

accacacgtc cgtttcgtta gacagagtca tcgcaccgga cgcaacacgt acgcgaggga 60

gcgcaagcta tagccgacgc catggcgagc aagcacctgg acctcgtcgc atgcctcctc 120
ctggtcctgc ccaacgtctc ggtcgccaac gacctcgact actgcagtaa gaaggactac 180
ccggtgaaag tgaactgcgt gcacacctg cagcagccga ccaaaccgg caagcccttc 240
agtatcaaga tcaacgtgc tactgatgaa cccatcgcca acggcaagct ggatattgac 300
atcaagcatc tatagttcta cgtgcactcg gagaccatcg acatctgcgg tgagactta 359

<210> 11351
<211> 349
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-028-Q1-K1-F9
<400> 11351

cccagcaatt tcttccattc aaccaactgg cagcattgaa ctctcctgct tatttacagc 60
agcaacaact actaccattc agccagctag ctgggtgtgag ccttgctacc ttcttgacac 120
aaccacagtt gttgccgttc taccagcagc ctgcgccctaa cgctggcacc ctcttacaac 180
tgcaacaatt gctgccattc aaccaacttg ctttgacaaa cctagcagtg ttctaccaac 240
aaccatcatc tgggtggtgcc ctctttttaga tttcttatga gttatagttc aataataaag 300
ttttttgtct gatgtttgtg gcttcccaga aataagaaag tacatttct 349

<210> 11352
<211> 354
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-028-Q1-K1-E4
<400> 11352

gaaagtggaa tccagtagca acaatagatc aacaatggcg accaagatat tttccctgct 60
tatgctcctt gctctttcta catgtgttgc taacgcgaca attttccctc aatgctcaca 120
agctcctata gcttcccttc ttccccata cttccatca attatagctt caatatgtga 180
aaaccagct cttcaaccat ataggcttca acaagcaatc gcagcaagca acataccttt 240
atcgcccttg ttgtttcaac aatcgccagc cctatctttg gtgcagtcac tggtaaaaac 300
catcagggca caacagctgc agcaactcgt gctacctctg atcaaccaag tagc 354

<210> 11353
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-C8

<400> 11353

ctagcaacat agaaagcaca atagtgtacc aacaatggca gccaaaatat tttgcctggt 60
 tatgctcctt ggtctttctg caagtgtctg tacggcgacc attttcccgc aatgctcaca 120
 agctcctata gcttcccttc ttcccccgta cctctcacca gcagttgtct tcggtatgtg 180
 aaaacccaat tcttcaaccc tacaggatcc aacagggaat cgcagctggc atcttacctt 240
 tatcaccctt gttcctccaa caatcatcag ccctattaca gcagttacct ttggtgcatt 300
 tattggcaca aaacatcagg gcacagcaac tacaacaact tgtgctagca aacgttgctg 360
 cctactctca gcaac 375

<210> 11354
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-C9

<400> 11354

cccacgcgtc cgcccacgcg tccgggcggc catcagggac gtccaggaag catgcgtgta 60
 tgatggctac gtccctccga agctgtacgc caaggtgcac cactgctgtc cgtgcgcgat 120
 ccacgtcac atcgtccgcg tccgateccg tgagaagcgc agggaccgca agccgccgga 180
 gcgcttcagg cgcagggagg ataggcctgc tgggtggacaa ggaggccccc gccctggtec 240
 tgggtgctgct gctccagctc cagctccagc acctgttgct gctcgcccat aggcttttagc 300
 ttttcgaccg tgtaaagtct tetgcccact cagtttcgga attgtcgcct atgggtgtgt 360
 gaagctgcta tattagagtt actttttgtc taaagcctga acattttcaa agaattt 417

<210> 11355
 <211> 398
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-D10

<400> 11355

gtgctcggca ggggaacggt gcgaagcggg ggagcggcga tgcagatccg ggtgcagtgc 60
gcgtgcggcg agtcgtcgtg cccggaatgg gccgtcgtgg agctgcaggg cgtggtgcag 120
ccgcaggcct ccttcgccgg cgacatccgg ggactccaca tcggccgcct ctgctcctcc 180
ccttccccag cctccgcctc gtccaaggca gggttcacct tcacggtggg gtaccacgag 240
ctcgcgggca caaagggtgac gctcaagaag cccctgctgg tgctcaggaa gaagaaggtt 300
aatgctggtg ctcaaggaaga agagccaccg acggcggcgg aggtggagct ggaggtgatc 360
ggcatcatcc ggcacaagat cctattcaag ggaccgcc 398

<210> 11356

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-D12

<400> 11356

ggcgtcttcg tactcgcta cctccgcggc tcaaaccttt ccccttctc ccagtgtggc 60
gccgccgctc catcccgtaa cgcgacacca tgagggagtg catttcgatc cacatcggcc 120
aggccggtat ccaggtcgga aacgcgtgct gggagctgta ctgccttgag catggcattc 180
aggctgacgg tcagatgccc ggtgacaaga ccattggggg aggtgatgat gctttcaaca 240
ccttcttcag tgagactggt gctgggaagc acgtgccccg tgctgttttt gttgaccttg 300
aaccactgt catcgatgag gtgaggactg gcacctaccg ccagctcttc caccctgagc 360
agctcatcag tgggaaggag gatgcagcca acaactttgc ccgtggtcac tacacc 416

<210> 11357

<211> 219

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-028-Q1-K1-D3

<400> 11357

attcctctga aatgagctgt taccggcgtt tgtagtctcc caagagtcaa ttggcaatgg 60

tcggtcaact tttctaactt gtttgaacaa gttaaattgc ccagatattt tggtttggtc 120
cattccagct caagaattca aagctaagca ttgcacaatt atgctngntt tgttggaag 180
tttttgaggt taattcatat ctttaagcntg agtttgctt 219

<210> 11358

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-D4

<400> 11358

caactagcaa catagaaagc acaatagtgt accaacaatg gcagccaaaa tattttggcg 60
tccttatgct ccttgggtctt tctgcaagtg ctgctaccgc aaccattttc ccacaatgct 120
cacaagctcc tatagcttcc ttttttcccc catacctctc accagcgggtg tcttcagtat 180
gtgaaaaccc aattcttcaa ccctacagga tccaacaggc aatcgagca ggcattctac 240
ctttatcacc cttgttctc caacaaccgt cagccctatt acagcagtta cttttgggtg 300
atttgttggc acaaaacatc aaggcacaac aactacaaca acttgtgcta agaaaccttg 360
ctgcctactc tcagcaacag cagttttcttc cattcaacca actggctgca ttgaactctg 420
cttgctatctt gcaacaacaa c 441

<210> 11359

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-D6

<400> 11359

ataaggggtcg gtgagaagga aaaggccctg gaacagctta aagtcactga aggagaagct 60
gtagctgttg gccaaaagat ggatcttctg ttccacactt tgcagattgg ttttttctac 120
atggattttg atctgatatc aaaatccatc gataaggcaa agaacttggt tgaggaagga 180
ggcgattggg agaggaagaa caggttgaaa gtatatgaag gcttgtactg catggcaacc 240
agaaacttca agaaagctgc cagcttattt ttagactcga tttcgacttt cacaacttat 300
gagatattcc catatgatac gttcatcttc tatacagtcc tcacaagtgt catcacattg 360

gatcgtgtat ctctgaaa

378

<210> 11360
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-D7

<400> 11360

tggcggcggc gaggagcctg cttctgaggc acctccgctt ggcggcggcc ccgtgggggg 60
cgctccgtgag gccgacggcg tcgttgcatg aggccctgtg ggggcagcgg tggatgtctt 120
cggaggatgc caagggtctt ttcttggaac agagcggagt cactgaacgc atcatcaagg 180
tcgtcaagag cttcccgaag atcgatgacc cctccaaggt gacaccagat gcccatttca 240
agaatgatct tggcctagac agtttgatg cagtggaggt tgtcatggcc ctggaagagg 300
aattcagatt cgagatacct gacaatgaag ctgacaagat tgactccgtc aaagttgcag 360
ttgacttcat tgcctcacac ccgcaagcga aatgataaag atgcgttgcc tggatatagca 420
aagctatatc gtcatta 437

<210> 11361
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-D9

<400> 11361

gagagtggaa accagcgtca gcattggagc aactgaggag accctgatat agaacttgg 60
tatgcttcat gctgtttcta catacgttgc tgacgccaca atgctccctt aatgctaaca 120
cgctcctata gctatcatta atgcggcata cgttccatac attatagctc caatatgtga 180
aaaccagat attcaaccat atctgcttca acacgcactc gccataagca gcatacctaa 240
atcgcccttg tggacacaac atttgtcaat cctatcttta gcgcatgcat cggaacatac 300
catcatggca caacatcagt agcatctcgt gctacctctg atcaactcaa gtagctctgg 360
caaacctttc tacatactgt cagcaacgac 390

<210> 11362
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-E10

<400> 11362

ctcgcacgac aggatcaacg agcgtgttga agagaaagaa ggaattacta ccgtgcagaa 60
 aaggctgac tatgctggtt agcagcttgc tgatgacaag accgcaatgg actacaacat 120
 cgaggggtgga tctgctatac atcttgtact tactgtgagg ggtggacact agtctaaacc 180
 tgatgaacta tcaataagat aaactgttgt gttggctgcg aaatgtgcac gcctgatgat 240
 gaacttgcaa ggagataata acaaagtatc agatttgctc atgttcccaa tggaaggggc 300
 tgtgttccaa gttatggtct gatatggaag cgatgcagaa tatgatgtgt cgacgctgac 360
 ccattatgat gatttgatta gaaccttact 390

<210> 11363
 <211> 383
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-E12

<400> 11363

cccacgcgtc cgcggacgcg tgggctgccg ggagctggcg gacatcccgg cgtactggcg 60
 gtgcacggcg ctgagcatcc tcatggacgg cgcgatcccg ccgggcccgg acgcgcagct 120
 ggagggccgc ctagaggacc tgccgggctg cccgcgggag gtgcagaggg gattcgccgc 180
 caccctcgtc acggaggccg agtgcaacct ggccaccatc agcggcgctc ccgaatgccc 240
 ctggattctc ggcggcggaa cgatgccctc caagtaactg cgaagagcat agtgcagag 300
 gaatgagctt gtagctagct catatgtctg aataataagc acagcaagaa gatgaatgca 360
 tttctcgat cgttcatccg gaa 383

<210> 11364
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-E2

<400> 11364

cccacgcgtc cgcattggatg accctgccgc ctacctaca cagcaacaac tgctttcgtc 60

tagcccgctc gctgtggcca atgcacctac atacctgcaa caacaattgt tgcaacagat 120

tgtaccagct ctgactcagc tagttgtggc aaaccctgct gcctacttgc aacagctgct 180

tccattcaac caactgacta tgcgaactc tgctgcgtac ctacaacagc gacaacagtt 240

acttaatcca ctagcagtgg ctaaccatt ggtcgtgccc ttctacagc agcaacaatt 300

gctgccatac aaccagttct ctttgataaa cctgtcttg tcgaggcagc aacctatcgt 360

tggaggtgcc atcttttaga ttacatatga gatgtactcg ataatg 406

<210> 11365

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-E3

<400> 11365

accacgcgt gcgtggacgc gtgggtcagc attcaaaaac aactaagcg aagcgcacta 60

gcaacgacct agcgggaatg gctaccaaga tattagccct ccttgcgctt cttgcccttt 120

tagtgagcgc aacaaatgcg ttcattattc cacagtgtc acttgctcct agtgccagta 180

ttccacagtt cctcccacca gttacttcaa tgggctttga acatccagcc gtgcaagcct 240

acaggctaca actagcgctt gcggcgagcg cettacaaca accaattgcc caattgcaac 300

aacaatcctt ggcacatcta accctacaaa ccattgcaac gcaacaacaa caacaacagt 360

ttctgccatc actgagccac ctagccgtgg tgaacctgt cacctacttg caacagcagc 420

tgc 423

<210> 11366

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-C7

<400> 11366

cccacgcgtc cgcccacgcg tacttccacg cgtccgagac aatgctgatg ccttgatgct 60

tatcgttttc	tgtaatgttc	gtaaataaggc	tcttcgtcgc	cttgttgtct	gactgctaca	120
ttgtcaatat	ttcaaaacat	acgtatttga	atcaaagtgc	tggattgggt	atgcctaaaa	180
aaaaaataac	ttaattggat	acgaacacat	aaataaaaaa	aaaaaaatac	aacaactaaa	240
aacttaaaaa	aataatatta	caacaacaaa	aaaaaacaat	tacaacaact	ataaataaac	300
ggggctgaca	tttcaagaaa	tcacaactta	acatcatcac	tagcaactac		350

<210> 11367
 <211> 380
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-028-Q1-K1-B12

<400>	11367	
gcgaggagtc	ctacaaggac	agcactttga
tcatgcagct	ccttcgtgat	aacttgaccc
		60
tatggacttc	tgacatctcg	gaggaccctg
ctgaagagat	tagggaggca	cccaagcgcg
		120
actcgagtga	ggggcagtaa	agccggcttt
atgtgcctag	aaactagtag	ctagtgtttg
		180
ctgctgtcga	atgacactat	gcaatgtgat
ctggaacctg	gtttcttggg	tgcgacgctt
		240
gttatgactg	tcgtcagtaa	aatttggggg
ctccccgtat	gagatgctgc	cgggcaaggc
		300
ctcgggtgcc	cacctcgttt	gtggcgngng
gcgctggagc	cgggtctggt	tgggttggga
		360
agccctttaa	actgttgta	
		380

<210> 11368
 <211> 381
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-B2

<400>	11368	
caggacaagg	cacctcagaa	gcccttctcg
tccgcgcgcg	ctccttgacc	ccgctggccg
		60
gcgagctgct	cagcgcggtt	tttttttgca
tccacaatgc	cgcagcttgg	cacatgttca
		120
ttgcctggag	ctgcaatcta	tggcacttca
actaggagat	ttggaggttt	ggagtttcag
		180
caacataaag	ttaatcacat	ctcatttggt
cggaaagcgt	ctgttaaagc	aacattgaaa
		240

actgtgagat gcaatgccac tcaaacacaa agcgtccaaa agaatcttc aagtgcaact 300
 attcagcgtg ataagaaagg aaatgtacaa gggccaaaac tggatgacgg aagcgggtggg 360
 ttccctccat tccgctttgg c 381

<210> 11369
 <211> 389
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-028-Q1-K1-B3
 <400> 11369

catgcctcg gacagcggct ccagaacctc cgcgttgacg aaacacagta gcgagaacta 60
 ttcgggtgggg ccgaagatgg tgtcgtgaa ggtgccaaag cgcttcgccg caagcgttct 120

caagtgtggg aaaggcaaag tgtggcttga cccaatgaa gttagtgaga tctccatggc 180
 gaactcccg c cataacatcc ggaagttggt taaggatggg tttatcatca agaagcctca 240
 gaaaatccac tctagatctc gtgcaagaag ggcgcacgag gctaagcaga agggacggca 300
 ctgaggatat gggaagcgta gaggtaccag ggaggctagg ctccccacca aggtactgtg 360
 gatgaggagg atgcgcgtgc tgaggcgcc 389

<210> 11370
 <211> 367
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-028-Q1-K1-B4
 <400> 11370

gctccatgat gtttactcat tcagggcctt catggttctg gcgaaaaatg atgttaaggc 60
 tggcatcgaa cttgaacaag tgactgtgca aaatgctttg gatgtgcaat accaggtgca 120
 tggtcgacga cagtgttata cttgtttaca gacaaatacc ttgctggaag tcttagaggg 180
 attgtctatt ccaggagttc gacggcttgt tggtattgaa caaagtacca gatttgtgga 240
 aggaatcatc tcattgagag acatatttac atttctcctt ggatagcatc tgtgtagcca 300
 ttccatacat gaaaaagctt gttgtacttg gttcanacga aataaaaagg ttacaaatgt 360
 gatagcc 367

<210> 11371
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-B6

<400> 11371

aactagcaac atagaaagca caatagtgt ccaacaatgg cagccaaaat attttgcctc 60
 cttatgctcc ttggtctttc tgcaagtgt gctacggcga ccattttccc gcaatgctcg 120
 caagctccta tagcttcctt tcttcccccg tacctctcac cagcgggtgtc ttcggtatgt 180
 gaaaacccaa ttcttcaacc ctacaggatc caacaggcaa tcacagctgg catcttacct 240
 ttatcacctt tgttctcca acaatcatca gccctattac atcagttacc ttggtgcat 300
 ttattggcac aaaacatcag ggcacaacaa ctacaacaac ttgtgctagc aaaccttgct 360
 gcctactctc agcaacagca gtttcttcca ttcaaccaac tagctgcatt gaactct 417

<210> 11372
 <211> 390
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-028-Q1-K1-B8

<400> 11372

gccggccgct cagacggcgc gtggtgctgt tgccggctcg acctggcgga cagcgcgctg 60
 cagaagacgc tggactacgc gtgcggcggc ggcgccgact gcaagcccat cctgcagggc 120
 ggcgctgct tcgccccgga caccgtcaag gccactgct cctacgccgc caacagcttc 180
 taccagcgca acggccagaa cgcgcaggcc tgcgtcttct ccggcacagc cgcgctcagc 240
 aacgtcgacc cgagcgccaa tggtgcacg taccctgcga cccaagtgc tgctgcaacg 300
 acgagcagca gcagcggttc ggccggcgtg tacagccctn cagcgatggg tccgtcggcc 360
 ctcaacgacc acagcgtgc cgccggcgtc 390

<210> 11373
 <211> 415
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-B9

<400> 11373

caatgctcac ttgctccgag tgccattatt ccacagttcc tccctccagt tactgcagtg 60
ggcttcgaac acccagctgt gcaagcctat aggctacaac aagcgcttgc ggcgagcgtc 120
ttagaacaac caattgcccc attacaacaa caatccttgg cacatctaac catacaaacc 180
atcgcaacgc agcagcaaca agcactgagc cacctagccg tggatgaaccc tatcgcttac 240
ttgcaacaac agctgcttgc atccaaccca cttgcttttg caaacgtagc tgcataccaa 300
caacaacaac agttgcaaca gtttctacca gcgctcagtc aactagccat ggtgaaccct 360
atcgcttacc tacaacagca acaacttctt tcatctagcc cgctcgctat gggca 415

<210> 11374

<211> 87

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-C11

<400> 11374

gtttttttca atatacattt atcttaaaaa cagcgggtact gatgtttttt tgtctaaagt 60
taatgagttt gcaatgggtc tgagtct 87

<210> 11375

<211> 422

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-028-Q1-K1-C2

<400> 11375

cccacgcgtc cgtgttctta gccctctcct ttgtagcagc tatgtttgcc ataggctgtc 60
atgctgatgg agactgtgag aatgacctcc aaagcctgat aagtgactgc aagacatacg 120
tgatgttccc agctaacca aaggccctc cttcggtatgc ttgctgtggt gtcataaaga 180
aggcaaacgt ttcttgcttg tgctccaagg tcaccaaaga aactgagaag gttgtgtgca 240
tggagaaggt tgtgtatgtt gctgagcagt gtaagaggcc atttgagcat ggcttccagt 300

gcggaagcta caaggttcca gcaaactgat gatatacaca gaggggaagcg cttgacgtag 360
tcttttagatt tcaattgttg cagccgatca accttcttag gggtnataa tatgaagtca 420
at 422

<210> 11376
<211> 406
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-028-Q1-K1-C4

<400> 11376

cccacgcgtc cgagaggctg cagtggaggc aactggcgaa ttcctgaacc agggcgtgga 60
gccagtcctt ggcggccggc ccaaactggg tgtgggaaaa ggcagaaaag gctttggtcg 120
atatgggtag aatcccatgg ctatgcctat gccgtgatgc catcggccaa aggtcttgtg 180
ccagagactc accncactt catcggcacc tactggggcg ccgtcagcac cgncttctgt 240
gcgagattg ttgagtcgc agatgcctac ctctttgcag gccccatttt caatgactac 300
agctctgttg gctactcatt cctcctcaag aaggaaaagg ccatcatcgt ccagcctgaa 360
cgtgtgataa tgggggaatg ggccggcatt cggatgtgtg atgatg 406

<210> 11377
<211> 442
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-028-Q1-K1-C5

<400> 11377

cggacgcgtg gggcattcag aaacacacca agcgaagcgc actagcaacg acctaacggc 60
aatggctacc aagatattag cctccttgc gcttcttgcc ctttttgtga gcgcaacaaa 120
tgcgttcatt attccacaat gctcacttgc tctagtgc attattccac agttcctccc 180
accagttact tcaatgggct tcgaacacct agctgtgcaa gccaacatgc aacaacaagc 240
gcttgccggc agcgtcttac aacaaccaat tgcccaattg caacaacaat ccttgccaca 300
tctaacaata caagccatca caacgaaca gcaacaacag ttcctaccag cactgagcca 360

cctagccatg gtgaaccctg ccgntactt gcaagagcag ctgcttgcac ccaaccact 420
tgctctggcg aacgtagttg ca 442

<210> 11378
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-C6

<400> 11378

ctgtaatagt cagattgaga gagttatgga aatatggaac aaaaacgagg acttccggaa 60
gcagtatgtt gaatcgaaca aggttagcac actaaagaga ttagggaccc atgacggacg 120
aaaacttggc cctggtgagg atcctccggt cattccaagc cgaagaccaa gcaacattgg 180
tccattgtct gcctcaagcc cggaaatgat caccttagct tcaacaccag cacctgtatt 240
ggctgctgca gctgcagtcc tttccaaaga gaactccttt cctgctttgg cagcccctca 300
gaccagtaag cgcgccatat caaaagcatg tggtagctct gcccatatta acaacaaatc 360
tgttatagta tcag 374

<210> 11379
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-B10

<400> 11379

ggcacccgtcg gtgttcagtg tgcgcaacat cgggaagact ctcgatatcca ggacacaggg 60
taccaggatt gcttctgagg gtctgaagca cagagtcttt gaggtttgcc tagctgatct 120
tcagggcgac gaggatcaag cttacaggaa aatcaggctc cgtgctgaag atgtgcaggg 180
caggaatgtg ctcacaaaact tttggggtat gaattttacc actgataaat tgaggtcctt 240
agtgaagaag tggcagacat taatcgaagc ccatgttgat gtcaagacaa ccgacaacta 300
catgttgcgt ttgttctgca tcggcttcac caagaggcgc ccaaaccagg tcaagagaac 360
ctgctatgct caggcatccc agatccgtca gatccgccgt aagatggttg a 411

<210> 11380
 <211> 342
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-H5

<400> 11380

ctcacacttt aggagtctag caaggtttga gagatatata gaaccatgag ataagagagt 60
 tactgataga gttaccagat accacttaga ggctgctgaa tgagcactgt atacttagaa 120
 catggatcag atgaataagg ttgattgccc aaatccgacc gatcatgctg cactttgatc 180
 ctgtcgtctt acagcagaac gttcccaatg actgggacca ggcggtcctg aatctgacca 240
 tgaatgtcaa caaaatcgta tctgaaatgg accactatat aatttcaaca ttccttgcca 300
 aataccagga tcaagaagta catccctcaa cactaaaagc ct 342

<210> 11381
 <211> 374
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-H6

<400> 11381

cggacgcgtg ggccttgatc ctcttgaaa tacaggacac cctgaagtca cctgcgggcg 60
 agaacaagac gatgaagagg gcgtcgatga tctcgatcct cgtcacgaca ttcttctacc 120
 tctgctgcgg ctgcttgggc tacgccgctt tcggcagcga cgcgccgggc aacctcctta 180
 ccggcttcgg cttgtacggt ccgtactggc tcatcgactt cgccaacgcg tgcacatcc 240
 tccacctgct gggcgggtac caggtgtaca gccagccgat attccagttc gcggagcggc 300
 tcttggcgga gcggttcccg gacagcgggt tcgtgaacgg cggtcctac accgtccggt 360
 tcgcgtgcct gcag 374

<210> 11382
 <211> 227
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-H7

<400> 11382

ctcacactta ctcaactctta cttctttttt tactcatata caatagtaca tccggcggac 60
tacttatact ttcaaactctg cccttattca ctcttatccc atatacaa atattcagat 120
caatactcaa accataatct atatatgcat tagcttactc taaacattgc aaaacatctt 180
actacaaata ttacacatt gaaattaaaa ccttaactca acctatt 227

<210> 11383
<211> 425
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-027-Q1-K1-H8
<400> 11383

ggcaatcgca acaggcatct taccattatc acccttggtc ctccaacaac cgtcgggggt 60
attacaagag ttaccttttg tccatttggt ggcacaaaac atcagggcac aacaactaca 120
acaacttggt ctagcaaacc ttgctgcata ctctcagcaa catcagtttc ttccattcaa 180
ccaactgggt gcattgaact ctgctgctta tttgcaacaa caactaccat tcagccagct 240
agctgctgcc tacccccagc aatttcttcc attcaaccaa ctagcagcat tgaactctgc 300
tgcttattta cagcagcaac aactactacc attcagccag ctagctgatg tgagccctgc 360
tgccttcttg acacaacaac agttgttgcc gttctaccta cacgctatgc ctaacgcttg 420
caccc 425

<210> 11384
<211> 355
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-027-Q1-K1-H9
<400> 11384

caaccagttc tctttgatga atcctgtctt gtatggcagc aattgttgct gctgtaggag 60
aggcgggtgac caatgggtta gccactacca atggattaag taactgctgt ctctgttgta 120
ggtactcagc atagtctgac agagtcagtt ggttgaatgg aagcagctgt tgcaagtagg 180
caataggggt tgccacagca gcaacatttg ctgccttaca accagatctc tatgatgtat 240
cctatgttgc cgaggcatca tcccatcgtt ggaggtgcca ttttttagat tacatatgat 300

atgtactaca ttacggtgcc ctccctaccga catgtgttta ctagatgtaa tcaat 355

<210> 11385
<211> 317
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-A1

<400> 11385

gcctgaccag cctttgagca ataatgaatt cactatgaaa catgatgata tccaatttgg 60

gagtgcacta ctggatgatg aaccacataa tgatatatac agaagcttta ctgatatcat 120

aaaaaatcct ggtcctaaga caactttcga agttggaatg ttagctggtg attcatggaa 180

gaaggtcaag agcgacaaac gaaatgacca gagcaatgcc aatgacatta ccaataaatc 240

caaaataaccg gttccttcta ttgtagaccc acagcctaag caacaggatc acaattccga 300

ttcagatttt gagggaa 317

<210> 11386
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-A11

<400> 11386

atctacttct cctagagatc aatggtctgg tatctgaagt caagcagatc ttacctggta 60

tggttcggcg acatcggcat tcagatagca ctggtagcac gacttcctcc agaagcaatc 120

caatgcgaga agacatgttg aaccgatcaa acacacatcg tgctagaagt cagtttttag 180

aaaatcacct ggcaaagtta tttgagcaaa aaatggaaat attcaccaa gttgaataca 240

cacaggaatc tgttatttct actgtcctca agctctgcct gaaaagcttg caagaatttg 300

tccgtcttca gactttcaac agaagtggat ttcagcagat tcagctggat atggaatttc 360

tcaagacctc tcttaaggaa tttgtggatg atgaagcagc cattagcttt ttac 414

<210> 11387
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-A12

<400> 11387

gtgcaagcca acatgcaaca acaagcgctt gcggcgagcg tcttacaaca accaattgcc 60
caattgcaac aacaatcctt gccacatcta acaatacaag ccatcacaac gcaacagcaa 120
caacagttcc taccagcact gagccaccta gccatggtga accctgccgc ctacttgcaa 180
gagcagctgc ttgcatccaa cccacttgct ctggcgaacg tagttgcaaa ccagcaacaa 240
caacagctac aacagtttct gccaacgctc agtcaactag ccatggtgaa ccctgccgcc 300
tacgtacaac aacaacaact gctttcatct agcccgtcgc ctgtgggcaa tgcacctaca 360
tacctgcaac aacaattgtt gcaacagatt gtaccagctc tgactcaact agctgt 416

<210> 11388

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-A2

<400> 11388

ggcatgaaag cagctgaact tcatggcacc ttaccaagc ccaacggctt gaggctgtgg 60
aacttttcaa gaaaaaagaa gtagattttt tgattgcaac tgatgtcgct gctcgtggga 120
ttgatattgt tgggtgttcag actgtaataa atttcgcatg cccaagagat gtgaaaactt 180
atcttcatcg tgttggccgc actgcgcggg caggaagaga aggctatgct gtgacatttg 240
taaccgatga tgatagatgc ctcttgaaag caattgcaaa gaaggctggt tcacagctga 300
aaagtcgcat tgttgcagag aaacctgtgg ctgagtgtgc acgactgatt gagcaactag 360
aaggccaaat ttctatcatc attcgagaag aaagggttgg aagaga 406

<210> 11389

<211> 341

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-028-Q1-K1-A3

<400> 11389

cccacgcgtc cgcccacgcg tccgcccacg cgtccgccc cgcgtccgag accatggggt 60
 cggacagtga ctacaccgag tttgagaact tcaccaagtg gctcggagtg acgcagtgaa 120
 gcggcctttg aggcctagtt aagttttgag tagttgtgtc gctgaacttg tattgagacg 180
 aaatagtatt tttatcaatc tgttttatcc tgcgtcttca caacaagttg cctatctgtg 240
 gactttaagc ctgcatgttc gttntatttc tccattgccg tgggagcata gtatttgcag 300
 gttcgaacca attatctgga ttatggtatg gatntgtgca c 341

<210> 11390
 <211> 293
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-A5

<400> 11390
 gcctgcccag cctttgagca ataatgaagt aactatgaaa catgatgata tccaatttgg 60
 gagtgcacta ctggatgatg aaccacagaa tgatatataa agaagcttta ctgatataat 120
 aaaaaatcct ggtcctaaga caactttcga agttggaatg ttagctggtg attcatggaa 180
 gaaggtcaag agcaacacag gaatggacca gagcaatgcc aatgacatta ccaataaatc 240
 caaagtaccg gatccttcta ttgtagaccc acagcctaag caacaggatc aca 293

<210> 11391
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-A6

<400> 11391
 cttccccctg acctctcacc agcgggtgtct tcggtatgtg aaaaccaat tctgggacgc 60
 tacaggatcc aacaggcaat cacagctggc atcttacctt tatcaccctt gttcctccaa 120
 caatcatcag ccctattaca tcagttacct ttggtgcatt tattggcaca aaacatcagg 180
 gcacaacaac tacaacaact tgtgctagca aaccttgctg cctactctca gcaacagcag 240
 tttcttccat tcaaccaact agctgcattg aactctgctt cttatttgca acaacaacaa 300
 ctaccattca gccagctacc tgctgcctac cccagcaat ttcttccatt caaccaactg 360

gcagcattga actctcctgc ttatttacag cagcaacaac tactaccatt cagccagcta 420
gctgggtgtga gcc 433

<210> 11392
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-A8

<400> 11392

gttggcttct cctccccctc cggttcgggt tcgggttcgt gaggttctcc ggggttcggg 60
ttcgtgggtg agcggatcga gatggcggcg tcggatgttg agtaccgctg cttcgtcggc 120
ggcctcgcct gggccacgga cgaccactcc ctccacaacg ccttcagcac ctacggcgag 180

gtcctcgagt ccaagatcat cctcgatcgg gagacgcaga ggtcccgcgg cttcggcttc 240
gtcaccttct ccacggagga ggcatgcgg aacgccatcg agggcatgaa cggcaaggag 300
ctggacggcc gcaacatcac cgtcaacgag gccagtcctc gcggcgccg tggaggcgcc 360
ggcgggtgggt acggtggt 378

<210> 11393
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-A9

<400> 11393

acgcgtgcga gtgagaccaa ctagcaacat agaaagcaca atagtgtacc aacaatggca 60
gggaaggat tttgcctcct tatgctcctt ggtctttctg caagtgtgc taccgcgacc 120
attttccgc aatgtcacca agctcctata gcttcccttc ttccccgta cctctcacca 180
gcgggtgtctt cggtatgtga aaaccaatt cttcaaccct ataggatcca acaggcaatc 240
gcagctggca tcttaccttt atcaccttg ttctccaac aatcatcagc cctattacag 300
cagttacctt tgggtgcat tttggcaca aacatcaggg cacaacaact acaacaactt 360
gtgctagcaa accttgctgc ctactctcag caacagcagt ttcttcatt c 411

<210> 11394

<211> 420
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-028-Q1-K1-B1

 <400> 11394

 cccacgcgtc cgcggacgcg tgggtcagca ttcaaaaaca caccaagcga agcgcacgag 60
 caacgacctt acaccaatgg ctaccaagat attagccctc cttgcgcttc ttgccctttt 120
 agtgagcgca acaaatgcgt tcattattcc acagtgtcct cttgctccta gtgccagtat 180
 tccacagtct ctcccaccag ttacttcaat gggcttcgaa catccagccg tgcaagccta 240
 caggctacaa cttagcgcttg cggcgagcgc cttacaacaa ccaattgccc aattgcaaca 300
 acaatccttg gcacatctaa ccctacaaac cattgcaacg caacaacaac aacaacagtt 360

tctgcatca ctgagccacc tagccgtggt gaaccctgtc acctacttgc aacagcagct 420

<210> 11395
 <211> 413
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-027-Q1-K1-H4

 <400> 11395

catcgatcac tatctgttaa atgtttcaaa gtttaatatc catatatgta tttttttgag 60
 cttttgaaca gtcttttgta tgcaccactt gtcataactt tcatgtgaat cagaaaatta 120
 accaaaaatt gggtgattca ctttggagtt agattagtgt gcatatatag gattcattag 180
 ctccattaaa tccttgtcac ccaatgtgta cttcgtgttt gcgtgtgctg cttcaggtgc 240
 cagctctcca gagattcatg cgaagtcgag cacacattca ccagcaaaca ggtgtccaca 300
 ttacatcctc aactatctac acttctacct tacacattgc tagggtaaatt gtgagggacc 360
 ctggtacaat aaacgatggc ctcggtgctg ctcgtgaagc agatgcccta ttg 413

<210> 11396
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-027-Q1-K1-F6

<400> 11396

cccacgcgtc cgcaatgaca agttcgggtat cgttgagggt ctgatgacca ctgggcgggc 60
catcactgct acccagaaga ctgttgatgg gccctcatct aaggactgga ggggtggaag 120
ggctgctagt ttcaacatca ttcccagcag cactggagct gctaaggctg ttggcaaagt 180
gcttcctgtc cttaacggaa agttgactgg aatgtctttc cgtgtcccaa ccgtcgatgt 240
ttctgttggt gatttgactg ttaggcttga aaagtcagca acctatgatg agatcaaggc 300
tgcggtcaag gccgaggcag aaggtagcct caagggcatc ctgggttacg ttgaggagga 360
ccttgtttcc accgatttcc agggtgacag caggtctagc atctttgatg ctaaggctgg 420
ca 422

<210> 11397

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-F8

<400> 11397

cccacgcgtc cgcccacgcg tccgggcgga ccaggtaagc agcagcagga accctaggac 60
cgccgcatcc gcagccatgg gtatcgacct cgttgccggt gggaggaaca agaagaccaa 120
gcgcacagcg ccgaagtccg acgatgttta tctcaagctc cttgtcaagc tctaccgttt 180
cttggtcagg aggaccaaga gcaacttcaa tgctgtcatt ctcaagaggc tcttcatgag 240
caaaaccaat cgcccaccaa tctccatgcg ccgccttgct aagttcatgg aaggaaagga 300
gaagaacatt gctgtgattg ttggcacagt cacagatgac aagaggatcc aagaggttcc 360
agcaatgaac gttactgcc tgaggttcac cgagactgct agggccagga ttgtcaatgc 420
tggtg 425

<210> 11398

<211> 263

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-G1

<400> 11398

ggcgagaagc tgaccgactg agttgctttt attgctacca atatattaga cctccaggag 60
 ggtcttcccc ttttagtgat ctctacaaat actttcatta ttccacaata cttacttcct 120
 cctagtgcga ttattccaca tttacttcta ccacttactc tcattcggcta ttaacatcaa 180
 actttgcaat cttacaagct acaactatct cttgccgcta gcgctttaca tacaaccaat 240
 tgcccaattt caacatcaat tct 263

<210> 11399
 <211> 412
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-027-Q1-K1-G10
 <400> 11399

cagtccagca ctggggcata gccgtcaagt ttgctgagct cattaccaag atcgacaggc 60
 ggtctggcaa ggagcttgag aaggagccaa agttcctgaa gaacggtgat gctggtatgg 120
 tgaagatgat accgaccaag cccatggtgg tggagacgtt ctcagcgtat cctccccttg 180
 gtaggtttgc tgtccgtgac atgaggcaga cggttgctgt tggagttatc aagagtgtgg 240
 agaagaagga cccgaccggc gccaaaggta ccaaggcggc tgccaagaag aaatgatgcg 300
 atcctgcgcc tgcttttagca atacctagtt ttcattcatca caagttttgt ttgtgatcgt 360
 tgctgttata gtgtgaactg ttgagatctg ttagcatgtg cacttttata ta 412

<210> 11400
 <211> 385
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-027-Q1-K1-G12
 <400> 11400

ctcgtcccaa gatgaagggtg tgcatgcttg gtgatgccca gcatgttgag gaggccgaga 60
 agatgggact tgactacatg gatgttgagg ctctcaagaa aatgaacaag aacaagaagc 120
 ttgttaagag gcttgccaag aagtaccatg ctttcttggc atcagaggcc atcatcaagc 180
 agattccccg tctccttggt cctggtctca acaaggcagg caagttcccc accctggtta 240
 ctcaccagga atccctcgag tccaagggtga acgagactaa ggcaacagtc aagttccagc 300

tcaagaaggt cctttgcatg ggtgtcgccg tcggcaactt ggcgatggag gagaagcaga 360
tccagcagaa catccagatg agcgt 385

<210> 11401
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-G2

<400> 11401

cccacgcgtc cgggggtgggc cgttccagaa cgacaccttc gtggactccc gtgacagcgc 60
cgtgcagacg gagtccagca cctacaacag tggcaccctg gtcggtctcc tctccggcct 120
cgtcaccact tcctccgtgg tacagtcggt cacctagacg gctcctccta tgttctggcc 180

tggagcgatg catgtacgag tacgattgca gtttttttgc ttggcgtggc tgatggtgat 240
gcgcgatctg tgactgtgag agagaaagct tggttgcaa ccgttcagtt cagacggatg 300
gcatatgcag gatgcagcag tagtttagta gtgccacgc gtttcttctg ttgtgtgtgt 360
acaatgacgg tgctgctcct gcagtgcagc tatagttttt caccgcgtgc tcctatctgg 420
tttgct 426

<210> 11402
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-G3

<400> 11402

ccggaacga cagctgacgc tgagagactc gaccgccccg ccactggctg ctggggggga 60
cggacatcgt ccctggctga cgggcaggag gaggtaacta actgaccgac gaccatttcc 120
tcgccgctcg gtttccacaa tctatcggcg tcgtcgtcgt ccctgaaatc ctgaaaatct 180
atcggcatcg gtggccacaa tgctgtgtga tgatgacagg ccaagacct ggaggccagg 240
ctcaccagg tcagcgagga gaaccggcg ctcaccgaga tcatcgcta catgtacgcc 300
agccaggteg ccgcgcagcg gagtcccgac ggcaggaaga ggagcaggga ca 352

<210> 11403

<211> 149
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-G5

<400> 11403

agcaaaccta cactgcctaa agagtatctt ctaacacaac agcatgaaca tggatcatggc 60
tctcgtcacg tgctgactc tgtcagctgc catcgctct gcaatgcaaa tgccctgccc 120
ctgcgcggag ctgcacggct tgtacagct 149

<210> 11404
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-G7

<400> 11404

aaaatgcata taaactccaa attaattcat tccagttcct aaaattttgc aattggaggc 60
tctataacct agagcctctg ttttgaatg aaaccagtaa aaaattgatt cttcacttaa 120
tcctatttaa aacacatgaa acctttgaaa attcataact caaatgctat aactccaaaa 180
attatgattc ctgttcctag gattttatta taatgtgtag aatattactg tgtgttttgt 240
ttacatgttt ggtgtgatgt taatttcct atatacgggtg tttgtttgta ttgtggcgag 300
tagaagaacc cgtgaccgag gatcctgggtg agcagcaggt tgaagtagct gagcaggagc 360
tcataaaagg caagttgtgc ccttgaccac tttttaccca ataata 405

<210> 11405
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-G8

<400> 11405

gcttcgaaca cctagctgtg caagcctaca ggctacaaca agcgcttgcg gcgagcgtgt 60
tacaacaacc aattaaccaa ttgcaacaac aatccttggc acatctaacc atacaaacca 120
tcgcaacaca acagcaacaa cagttcctac cagcactgag ccaactagat gtggtgaacc 180

ctgtcgccta cttgcaacag cagggtgcttg catccaaccc acttgctctg gcaaacgtag 240
 ctgcatacca acaacaacaa caattgcaac agtttctgcc agcgctcagt caactagcca 300
 tgggtgaaccc tgcgcactac ctacaacagc aacaactgct ttcattctagc cctctcgttg 360
 tgggtaatgc acctacatac ctgcaacaac aattgctgca acagattgta ccaactctga 420
 c 421

<210> 11406
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-G9

<400> 11406

cccacgcgtc cggagaccaa caagcaacat agaaagtgga atccagtagc aacaatagag 60
 caacaatggc gaccaagata ttttccctcc ttatgctcct tgctctttct gcatgtgttg 120
 ctaacgcgac aattttccct caatgctcac aagctcctat agcttccctt cttcccccat 180
 accttccatc aatgatagct tcagtatgtg aaaaccacgc tcttcaacc tataggctcc 240
 aacaagcaat cgcagcaagc aacatacctt tatcaccctt gtttcaacaa tcgccagccc 300
 tatcttttgt gcagtcattg gtacaaacca tcagggcaca gcagctgcag caactcgtgc 360
 tacctgtgat caaccaagta gctctggcaa acctttctcc ctactcttag caaca 415

<210> 11407
 <211> 393
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-H11

<400> 11407

atccagatca gcaaagcggc agtgcgtaga gaggatcgtc gaacagaaca gcatgaagat 60
 ggtcatcggt ctcgtcgtgt gcctggctct gtcagctgcc agcgccctctg caatgcatat 120
 gccctgcccc tgcgcggggc tgcagggctt gtacggcgct ggcgccggcc tgacgacgat 180
 gatgggcgcc ggcgggctgt acccctacgc ggagtacctg aggcagccgc agtgcagccc 240
 gctggcggcg gcgcctact acgccgggtg tgggcagacg agcgccatgt accagccgct 300

ccggcaacag tgctgccagc agcagatgag gatgatggac gtgcagtccg tcgcgagca 360
gctgcagatg atgatgcagc ttgagcgtgc cgc 393

<210> 11408
<211> 248
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-H2

<400> 11408

cccacgcgtc cgcgagtttt aaaggtggtg acgtctgaat ttcgtggaat tgacaatgac 60
atgtctgtat gattggtgtc gcaactctcc agttcggaaa tttgttagca caaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataa aaaaaaaaaa 180

aaaaaaaaaa aaaaaaatga aaaataaaaa atatataata agacaacgaa atagaaaaca 240
aaaacata 248

<210> 11409
<211> 129
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-H3

<400> 11409

tcccagctcg acccactcat cctaacacac atacaaatac tcaaccactt ttttttttac 60
accatcattc acatcccaat agacgtctct aataactcat tctacctcct attaaattcc 120
ttactaaaa 129

<210> 11410
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-F5

<400> 11410

cccacgcgtc cgcaacaaca actaccattc agtcagctag ctgctgccta cccggaggag 60
ttttttccat tcaaccaact ggcattcattg aactctgctg cttatttaca acagcaacaa 120

ctaccaccat tcagccagct agctgatgtg agccctattg ccttcttgac acagcaacac 180
 ttgttgccgt tctacctgca cgctgcacct aacgctgtca ccctcttaca actgcaacaa 240
 ttgctgccat tcaaccaact tgctttgaca aacccaacag cgttctacca acaacccatc 300
 attgctgggtg ccctctttta aattgcttat gagttatagt tcaataatga aatttttttg 360
 atgatgtttg tagctatcca gaaataaaaa agtacatttc tagatctt 408

<210> 11411
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-D9

<400> 11411

accggtattg cctgcccggc cggacccacg cgtccggaga gtggaaacca gcatcaacat 60
 tgggtaccact gaggtacccc tgatattgac gtgggttatg ctccatgctg tttctacata 120
 ccttgctgac gccacaatgc tccctcaatg ctaacacgct cctatagcta tcattattgc 180
 gccatacctt gcatacatta tagctccaat atatgaaaac ccagctattc aaccatatct 240
 gctgcaacac gcactcgcca taagcagcat acctaaatcg cccttggtga cacaacattc 300
 gtcagtecta tctttagcgc aggcacgtg acataccatc atggcacaac acctgtacca 360
 tctcgtgcta cctctgatca accaagtagc tc 392

<210> 11412
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-E1

<400> 11412

cattgttgga cgcgttcccc tctgcaacg aacctcatct cgtcctccag atcctgggtg 60
 gccgtectcc ttgatacctt gcctcgcgag tgctctcggt gagctacttt gttttgattt 120
 atcaggaaat ccgtttgctt catgttatgc aggcacagat ctgattgctg gattcggcat 180
 cttacgggct tgaatagagc taggactggg agaaaacaac aaaccgcgt tggatcctgt 240
 atcggtagt ccttgccctc aaggttcatg ttgttttggt ttggtggtcg agcatcgcat 300

gttctgcttc tggttccaga tctggagaaa tttctaagtc gtcgtcgtcg tcgtcgttcg 360
gttcggagcg gatctgagggc gacgatggct ggaggcggcg ggatctcttg gtctgcagtc 420

<210> 11413
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-E10

<400> 11413

cccacgcgtc cgcgagagaag ttggacccaa gaccattcat gttcctactg gggagaaggt 60
ttctgttttt gatgcggcca tgagatacaa atctgagggc catgctacta taatcctcgc 120
tggtgctgag tatggaagcg gcagttctcg tgattgggct gctaagggtc cgatgctcct 180

gggagttaaa gctgtaattg ccaagagctt tgagcgtatc cacagaagca acttggtggg 240
gatgggaatc attcctctgt gcttcaaagc tggtgaggat gctgattcgc ttggcctcac 300
tggaacatgag cggtaacagca tcgatctccc taccaacctc agtgagatcc gtcccggcca 360
ggatgtgact gttactaccg acaatgggaa atctttcact tgca 404

<210> 11414
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-E11

<400> 11414

cccacgcgtc cgcccacgcg tccgatgaca cggaagatta catcaatatc cagcttggga 60
accaccgtaa tcagttgatt cagctagagt tattcttgag ttctggtacc gtctgtctgt 120
cgctgtactc attagttgct ggagtctttg gtatgaatat tccgtatacc tggaatgacg 180
gccacggata catcttcaaa tgggtggttc ttgtatcagg gcttttttgt gcctttatat 240
ttgtctccat tgttgcttac gcacgacaca aggggctcgt cggatcctga atagctgaaa 300
taaccgcgta cttgcttccc tcaactgtaa atttgagcca gtgagcatcg actttgcggg 360
gtgattcacc tgttgtagca aattcggtag tatcaaat 398

<210> 11415

<211> 413
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-027-Q1-K1-E12

<400> 11415

ggcgtcgtcg tctagcagca gccaccgccg cctcctctc gcagccgccg tcttgctgtc 60
cgtgctcgcg gctgccagcg ccagcgccgg gacctcctgc gtgccggggg gggccatccc 120
gcacaacccg ctcccagagct gccgctggta cgtgaccagc cggacctgcg gcatcggggc 180
gcgcctcccg tggccggagc tgaagaggag atgctgccgg gagctggcgg acatcccggc 240
gtactgccgg tgcacggcgc tgagcctcct catggacggc gcgatcccg cggggccgga 300
cgcgagctg gagggccgcc tagaggacct gccgggctgc ccgcccggag tgcagagggg 360
attcgccgnc accctcgtca cggaggccga gtgcaacctg gccaccatca gcg 413

<210> 11416
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-E3

<400> 11416

caaacgccca atcacaacaa caatccttgg cacatctaac catacaaacc atcgcagcgc 60
gagcatcaac aagcactgag ccacctagcc gtggtgaacc ctatcgctta cttgcaacaa 120
cagctgcttg catccaaccc acttgctttg gcaaacgtag ctgcatacca acaacaacaa 180
cagttgcaac agtgtctgcc agcgctcagt caactagcca tgggtgaacc tatcgcttac 240
ctacaacagc agcaacttct ttcacttagc ccgctcgcta tgggcaatgc acctacatac 300
ctgcaacaac agttgttgca acaaacaggt gctgaacaaa attgtaccag ctcttactca 360
gctagctgtg gcaaaccctg ctggctactt gcaacaacta cttgcattca accaa 415

<210> 11417
<211> 288
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-E5

<400> 11417

cgcaaattgc accaagaaat ccatcgagag gccgtcgaca ggggaattaa tggcgggggc 60
gtctagcagc agccaccgcc gctcctcct cgcagccgcc gtctgtctct ccgtgtctgc 120
ggctgccagc gccagcgccg ggacctcctg cgtgccgggg tgggccatcc cgcacaaccc 180
gctcccgagc tgccgctggt acgtgaccag ccggacctgc ggcatcgggc cgcgcctacc 240
gtggccggag ctgaagagga gatgctgccg ggagctggcg gacatccc 288

<210> 11418

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-E6

<400> 11418

gagagacagg agtgaaggaa agaagcataa ggggtggctct tcaggagctg gatctgggggt 60
tctcgtgccc cttcaacttt cggatgattt agtaaaattt atcggcactg gtgagagcat 120
gttatcacga tctgatgtcg tgaagaaaat gtgggattac ataaaaggga acaacctgca 180
ggatccttct gaccggagga aaataatctg cgatgagaag ctgaaggacc tatttggagt 240
ggaaacattc accggcttta ctgtttcgaa gctgcttgcc cctcatttta ccaagacgaa 300
gtagcaacct gccatccaca tcttctaaaa ccaaaaaggc ttggtaattt tgtttttgca 360
gaatgtgtaa tcatggaaca gttaggagct atgtgggtgg tgtgaatttt tttttgggta 420
cctatggg 428

<210> 11419

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-E7

<400> 11419

ggagcactgc tgtgaggaag gccatccatt ttgtcaacct gcggacagct ggaaggggta 60
gtggaaacct ggctatgaac tccgtaccga aaccagcact tgggtccgaa acatcttgga 120
gggaggattt tgctgtgggg gataaggatg ctgtgggtcat tgttgatcat gggtaagac 180

gccaagaatc caatctcatg ctaaagtact ttgttgagat gttccgggcg aagactagct 240
 atagtattgt tgaggctgct catatggaac tagcgaacct tcctataaag aatcttttgg 300
 aaaatgtgtt ccaccaggaa cattaacagg taatggcaag ccatattttc ttttccc 357

<210> 11420
 <211> 357
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-E8

<400> 11420

ggagcacact agcaggaaca actctgatca atccagtaca accacgacaa catgggggac 60
 gttcctaaaa cgagactgac gcaactgcatg aacatagagt gcagcaagca cacactccac 120
 acggtgactc acagtaacaa gggcactgat agacaatctg acaaatcaaa gcgcactaat 180
 taccaagggc agtcaggata tggacgtcag accaatcctg tcttccacat gatggccaag 240
 agcacctaca agattgttct gaaactgcc a tgactgagca gcaagcacta ctcacaagga 300
 gcatatctat aaattcacgc attttcagat tggtagcaac actaactgca acggcac 357

<210> 11421
 <211> 382
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-027-Q1-K1-E9

<400> 11421

gctctgggca gcgtagcgac gtggggtacc tagctcgctc tgctagccta ccatgggtga 60
 tcaccaccgg ggtgtagcgg gaggtggcgg gggctacggc gacctccagc gcgggggcgg 120
 catgcaaggc gagggcgagc agcagcagaa gcagggcgcc atgatgacgg cgctcaaggc 180
 cgcgacggcc ggcaccttcg gcgggtcgat gctggtgctg tccgggctga tcctggccgg 240
 caccgtgacg gcgctcacgg tggccacccc cgtgctggtg atcttcagcc cggtgctggt 300
 gccggccgnc atcgcgctgg cgctcatggc ggccgggttc gtcacctccg gcggcctcgg 360
 cgtcgctgcg ctgtccgtgt tc 382

<210> 11422
 <211> 326
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-027-Q1-K1-F11

 <400> 11422
 gcagcagtga cagggcacgc cgaagctggt catccgatgg accttctatg acttccaggc 60
 gagcaacatg tcgctgtacg actacatcgc tgtgaacgcc acgaactact ccatgtacct 120
 gacgtacacc acatcacgtt actgcaataa gcgggtccgc taggcgctct gcccgatcgt 180
 cgtgcgcctt aaaaactgca tcatgatgca cgagctgctc atcggcgaca aggtcatcga 240
 tgtactgatc atcgagcata ccctggagat cattcacctg ctcaccgatg ccaaccccat 300
 ccaggtacct gtccacgcga tcatca 326

<210> 11423
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-027-Q1-K1-F12

 <400> 11423
 ggtatggcca caaaggaaat aatctgtttc taggcgactg gacctgttgt cctgcttgga 60
 gcccggtctg ggttaagctg tgaagctcct gcagcctctt gctcctgcag ttttgcgta 120
 agtgtctagc aactctagca tatgtagtgc tgcgtaagat gtcggcacct cagatagaca 180
 gaggtgccat atttcttgct catgtaatgt tatttggtgt atgctcgttt gtatgtacta 240
 catgaagcat tgtaaaattg agcaacagca accagagctc gagaatctta ggcgcaacca 300
 accaaccctg tatcgatgaa ttgacaataa agctgaatat tttaggtgtt tagaaagtat 360
 tttctcttag atttttgggg agattaggat aaaaactctc tgattc 406

<210> 11424
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-027-Q1-K1-F2

<400> 11424

gcgaagcgca ctagcaacga cctaacacca atggctacca agatattagc cctccttgcg 60
cttcttgccc ttttagtgag cgcaacaaat gcgttcatta ttccacagtg ctccacttgct 120
cctagtgccca ttattccaca gttcctccca ccagttactt caatgggctt cgaacatcca 180
gccgtgcaag cctacaggct acaactagcg cttgcggcga gcgccttaca acaaccaatt 240
gcccaattgc aacaacaatc cttggcacat ctaaccctac aaaccattgc aacgcatcaa 300
caacaacaac agtttctgcc atcactgagc cacctagccg tggatgaacc tgctacctac 360
ttgcaacagc agctgcttgc atccaacca cttgctctgg cgaacgtagc tgcataccag 420
caacaa 426

<210> 11425

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-F3

<400> 11425

agcatccctt tctttgagat ggttgaagtg tacaactctt tgagcgagga aggcaaaggg 60
gagttcaaca aggettatag cgcacggtt taccatgca tggatatact ctacgaatgc 120
tatgaagatg tggcctctgg aagtgaaatc cggagcgtgg tgttggctgg gcggaggttt 180
tatgagaaaag agggcctccc agcttttccg atgggcaaca tcgaccaaac tcgcatgtgg 240
aaggttggtg aaaagggtgc ctcaaccgt ccggaagggtg atcttggccc gctccatgcc 300
ttcactgctg gagtgtacat tgccctgatg atggctcaga ttgagatcct gaggaagaaa 360
gggcactcct actctgagat catcaacgag agcgtgattg 400

<210> 11426

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-D8

<400> 11426

cggacgcgtg ggtaaccgag tccaagtcca agaagatgc caggacctcc tgcttctgga 60

tatgaccggt	cacctctatt	ttacggagga	ggtggtggcg	ccccacctcc	aattccgctt	120
ggaactggta	gctatggtgc	tccatatcca	caccttgga	tgcgatatgg	ctatggtcca	180
ccagtaggac	ctcctgggtc	atatggtctt	ttctcttcat	atggtccacc	tgggccaatg	240
agtggtatgg	gatatggccc	aggacctgag	ctaggccgat	atagctatgg	gtttagaggt	300
tctccaatgc	cggtttctag	cccatggtct	cgtggagcat	tagctgaaaa	caatgacaac	360
attgcttcac	gaaagcgccg	tggaggccct	gatggacttt	ctgaggggtga	ctggacctgt	420
ccca						424

<210> 11427
 <211> 387
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-C11

<400> 11427

caactagcaa	catagaaagc	acaatagtgt	accaacaatg	gcagccaaaa	tattttgcgt	60
tccttatgct	ccttggtctt	tctgcaagtg	ctgctaccgc	aaccattttc	ccacaatgct	120
cacaagctcc	tatagcttcc	tttcttcccc	catacctctc	accagcgggtg	tcttcagtat	180
gtgaaaaccc	aattcttcaa	ccctacagga	tccaacaggc	aatcgagca	ggcatcttac	240
ctttatcacc	cttggttctc	caacaaccgt	cagccctatt	acagcagtta	cctttggtgc	300
atgtgttggc	acaaaacatc	aaggcacaac	aactacaaca	acttgtgcta	ggaaaccttg	360
ctgcctactc	tcagcaacag	cagtttc				387

<210> 11428
 <211> 402
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-027-Q1-K1-C12

<400> 11428

gccatcttct	tcgtcgacaa	gcaggggagt	taggtctcac	atgcatgctt	catcacagtg	60
ttgactgcat	aacgaaacac	atcgctcgctg	gatcgagat	gatgagttcc	gtcgctcggtg	120
atgctgctgc	taccagcagc	agcgagaaga	agacgtcgtg	gccggagggtg	gtgggcatgt	180

ccatcaagga ggcgacggag actattctca aggacatgcc caacgcgtac atccagggtgc 240
 tgctgttg gtcgcccgtg acgctggacc ttcgccccga ccgctccgt atcttcgttg 300
 acaccgtcgc catgactccg acagttgggt gatacatacc aaatgcaata acaaacctt 360
 actttntatt ntatgtttcc agttaataat aaaccaggcc tt 402

<210> 11429
 <211> 366
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-C3

<400> 11429

gttgaaccaa gccttcggtt ccaaccccaa ctccaaagg ccgcatattc agccccgccc 60
 ccatttccta ttaaccggat tgcccctgcc aaataaggga cccgttaatt cccaacttt 120
 aaaactcgtc atctccgga atgttgaacc tgtaaaacta ctttttttaa aaagcatctc 180
 actggagagt ttgaaaatta atatggacca accattggta ttgaaattca tccgttagat 240
 ttcaacacta acctttgtaa aatcaaggtc tacttcttgg ataccctacg gcaagaaaaa 300
 tttggtggcc ttaaggattg ataccatatt cattgccaat gttccatcat tatgcttgat 360
 gtaacc 366

<210> 11430
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-C4

<400> 11430

cggacgcgtg ggctgtttca gtagaagaga aacagttgtg ccaaggaccc aagatggggg 60
 gctacctaac ctctcagcaa ctgtggctgc tgtgaagaat cctaacccta aggtggttta 120
 tgatgagtac aaccatgaaa gatatcctcc tggagatccc agcaagcgtg cttttgcata 180
 ctttgacctg agtggtggga ggttcatata tgctgactg ctgcatcttc tcgtactgaa 240
 gtgtgactg agcatgtcag cacgcaagga tgtgcttgcc cttgcttcac tagagggtga 300
 cctgtccagt atcgagccaa ggaccacagt gaccgtgaaa tggcttgga agccagtctc 360

tatcatgcgt cggacagagg atgacatcaa gcttgtcaac agtg

404

<210> 11431
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-C5

<400> 11431

accaagcgta taccgacaac tacggcctta catatgttac tccaagata taatacgggg 60
aagcacgctt gtctttctaa atgatctgaa cttacgagca cattacatca cagctatcaa 120
tttctcctag ctacaatatt tcgctgtacc caccaactat ctctaactg ggacgatgaa 180
atccacagct ctaaatctaa ctgttacaac ctaggcctcg atccaagaat gttacaettt 240
ctataatgtt gaatcgcaat aactccatgt cgtctcatac ataacctaca gtcacattgc 300
atcgagatca accacaacat ca 322

<210> 11432
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-C6

<400> 11432

cccacgcgta cgaccacgcg tccgtccact cgtacgctga tctgcaacca taatgctgtg 60
aatagtattt ctcagcgaca tatctctgca cttcctgaca caattcatgg ctgcaatcca 120
tatgaaaaaa atattacaga aagatgtata cagcaatcat gcaaaacatt gcaagttgta 180
atctcagagt ggatatcaaa atttgacaac atggaaattg atcgttcaag gttgcaattg 240
aataatgtgg atgcaattac ttccaggaca tatactctgca accattgcta cagcaagttg 300
gctgatttcc tgctctactg attcctgtga tcattgtccc aaaatctttt tcca 354

<210> 11433
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-C8

<400> 11433

agaccaacaa gcaacataga aagtggaatc cagtagcaac aacagagcaa caatggcgac 60
caagatattt tccctcctta tgctccttgc tctttctgca tgtgttgcta acgcgacaat 120
tttccctcaa tgctcacaag ctccatagc ttcccttctt ccccatacc ttccatcaat 180
gatagcttca gtatgtgaaa acccagctct tcagccctat aggctccaac aagcaatcgc 240
agcaagcaac atacctttat caacccttgt tgtttcaaca atcgccagcc ctatctttgg 300
gtccagtaat tggccaacc caatcaggca ccaacacctg caaccacctc gtcctacctg 360
tgatcaacca agtagctctg gcaaacctt ctccctactc tcagcaacaa caatttcttc 420
cattcaacc 429

<210> 11434

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-D1

<400> 11434

atgggagcga atcgagatgg cggcgctcga tgttgcgctc cgctgctacc atcacggcgt 60
gggctggggc accgacgacc acatggctca cgacgtcttc aacaattacc gcgaggaccg 120
tcagtacaag atcgttctcg atcggttgac tcagacgtct ctcggttgg gttcatgac 180
gggcccacag tggaggcgat gcttaacggc atacatggca tgaacgcaa cgcgcttgac 240
tgtcgcaaca tgaccgggca cgatgaccag tcccgcggcg gtcttagagg ccgcagcggc 300
aggttcggcg gtggtcacgg actcggctgc tacggt 336

<210> 11435

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-D10

<400> 11435

cccacgcgtc cggagagaaa ggacgctgct gagaacacga tggcggcata caaggctgcc 60
caggacattg ctctggctga gcttgctcca actcaccta ttaggcttgg actggcactt 120

aactttctcag tgtttacta tgagattctg aactcacctg atcgcgctg cagtcttgca 180
aagcaggctt ttgacgaggc catctcggaa ctggacaccc tgagcgagga gtcctacaag 240
gacagcactt tgatcatgca gctccttcgt gataacttga ccctatggac ttctgacatc 300
tcggaggacc ctgctgaaga gattagggag gcaccaagc gcgactcgag tgaggggcag 360
taaagccggc tttatgtgcc tagaaactag tagctagtgt ttgctgctgt cgaatg 416

<210> 11436
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-D12

<400> 11436

cggacgcgtg ggctagcctt cactttctcag caccggcagcc ttcgaccccc gactgcagcc 60
gccagccgcg ccatggagca agccgccatg ccgcaggctc cccgcgtcaa gctcggcatc 120
caggggcttg aggtgtcgaa gctgggggtc ggggtgcatgg ggctcacggg cacctacaac 180
gcgcgcgtcg gcgacgaggc cgtggccgcc gtcgtcgcgc acgccttcg cgcgggatc 240
acctttcttcg acacctccga tgcctacggg ccccgcacca acgagaccct cctggggaag 300
gcgctcaagc agctgccgag ggagcagggtg cagggtggcca ccaagttcgg gataggtcag 360
ggcgcgcgtg gcatgaccgt gtgcggcacg cccgagtacg tacgcgcct 409

<210> 11437
<211> 163
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-D2

<400> 11437

catacacata atcaaaaaca ccatactttt aacatcctca ccaacgtacc atctctcgtg 60
gctctcaaaa atcatagctc ctctaattca tgctgaatct taccaccttc atacacacaa 120
catctatcta catctttccc acatactact acctatcacc tat 163

<210> 11438
<211> 416

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-027-Q1-K1-D4

 <400> 11438

 cgactgcaga ttggagaact cgacaccatg aacgtgctga tcgttgccct tgctctcggg 60
 ggcgtcgctg cgagcgccgc ctccagtaca agcggcggt gtggctgcca tacaccaccg 120
 tttcatctac cgcctccgtt ctatatgccg cctccgttct atctgccgcc gcatcagcag 180
 ccgcagccat ggcaataccc cactcaacca ccgcagctaa gcccgtgcca gcagttcggg 240
 tcttgccggc tccgcagcgt cggcagcccg ttctggggc agtgcgtcga gttcctgagg 300
 caccagtga gcccgccgc gacgccctac ggctcgccac agtgccaggc gctgcagcag 360
 cagtgtgcc accagatcag gcaggttgag ccgatgcacc ggtaccaggc gacata 416

<210> 11439
 <211> 330
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-027-Q1-K1-D5

 <400> 11439

 cggacgcgtg ggcggacgcg tggggagctg catctccgat cggttctcct gctcgaggac 60
 ttccaggaag acggggtcga cggatgatgtg gctgtcgatg cggacggaga aggggcggga 120
 ccagagcagc accgtggcct cgccggcgat ctgcagggcc gcgtccagct ccatgtggcg 180
 gcgcgcgacg tcagagagga gggcgcgggc gcggtgcgcg agctcgacac cgtcgaggcg 240
 cgccgggagg tggagcacgc ggcaggaggt ggcgggctgc tcgccggcgt cgaggcgggc 300
 ggtgccgacg tgcgcgccgt cgtaaaggat 330

<210> 11440
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-027-Q1-K1-D6

 <400> 11440

 cgtccgcctc agcccgccgc aaggagaggt aagttcagga gacatcttcg agaagcggaa 60

atggctccta aagctgctcc tgccaagaag ggtgatgcca agaccagggc cttgaaggtt 120
 gccaaaggctg tgaagtctgg ggcagccaag aagaagacca agaagatccg cacgtctgtg 180
 acatttcacc gccccacgac cctgaagaag gctagggacc ccaagtaccc acgaatcagc 240
 actaccggaa ggaacaagct tgatcagtac caaattctta agtaccctct taccacagaa 300
 tcagcgatga aaaaaaatga agataacaac actctggctt tcattgttga cctcaaggca 360
 gacaagaaga agatcaaggc tgccgtcaag aagatgtatg acatccaggc aaagaaggtc 420
 aaca 424

<210> 11441
 <211> 382
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-C10

<400> 11441

atcgagtaca gccggctagg taatctggta cgacgaccca cgacgacatg gcggcggggc 60
 acgaccacca gcagcagcaa gaagtcgtcg tcgccgtcgt cctcgagctc ggcgagcagg 120
 gcagcagctg ccgccctgct cgtggcggtg tccgtcctgg tgggtgggagc ggcgagcagg 180
 tgcgacatga gcaacgagca gttcatgtcg tgccagcccc cgggcgccaa gacgacggac 240
 ccgccggccg cgccgtcgca ggcgtgctgc gacgcgctgg cgggtggcgga cctcaagtgc 300
 ctgtgcggct acaagaactc gccgtggatg ggcgtctaca acatcgaccc caagcgcgcc 360
 atggagctgc cggccaagtg cg 382

<210> 11442
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-A5

<400> 11442

cgcaacaag gcggctgatg cggcggtgaa ggccggcagg acgatcatcg actggggggg 60
 catggccaag ttgctcgtca ccgacgaggc gcgcaaggag ttcgccgtcc tgcgacgcgc 120
 tttccatgac gtcaaccacc agctccagac caagttctcc caggaacccc agccgattga 180

ttgggagtagc tacagaaaag gaattggatc aaaagcgggtg gatatgtaca aagaggcttt 240
 tgaaagcatc gagatcccgga agtacgtcga cacagttact acccagtaca agccaaagtt 300
 tgatgctgcy attgctgaat taaaggaggc tgaaaaagag catcataagg agtcagaaaag 360
 gatagagaaa gaacttgctg aaatggaaga aatgaggaaa aag 403

<210> 11443
 <211> 290
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-A6

<400> 11443

agaccaacta gcaacataga aagcacaata gtgtaccaac aatggcagcc aaaatagggt 60
 gcttccttat gctccttggt ctttctgcaa gtgttgctac cgcaaccatt ttcccacaat 120
 gctcacaagc tcctatagct tcccttcttc ccccatacct ctcaccagcg gtgtcttcag 180
 tgtgtgaaaa cccaattggt caacctaca ggatccaaca ggcaatcgca acaggcatct 240
 taccattatc acccttggtc ctccaacaac cgtcagccct attacaagag 290

<210> 11444
 <211> 374
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-A7

<400> 11444

accaagcgaa ggcactagc aacgacctaa caccaatggc taccaagata ttagcccggc 60
 ttgcgcttat tgccctttta gtgagcgcaa cagatgcgtt cattattcca cagtgtcac 120
 ttgctcctag tgccagtatt ccacagttcc tcccaccagt tacttcaatg ggcttcgaac 180
 atccagccgt gcaagcctac aggctacaac tagcgcttgc ggcgagcgcc ttacaacaac 240
 caattgcccc attgcaacaa caatccttgg cacatctaac cctacaaacc attgcaacgc 300
 aacaacaaca acaacagttt ctgccatcac tgagccacct agccgtggtg aaccctgtca 360
 cctacttgca acag 374

<210> 11445
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-A8

<400> 11445

cggacgcgtg ggctgattca gtggaagaga aacagttgtc ccaaggaacc aagagggggg 60
cctagctgac ctcccagcaa ctgtggctgc tgtgaagaat cctaacccta aggtggttta 120
tgatgagtac aaccatgaaa gatatactcc tggaaatccc agcaagcgtg cctttgcata 180
ctttgtcctg agtgggtgtga ggttcatata tgcttactg ctgcatcttc tcgtactgaa 240
tgatgtcctg agcatgtcag caagcaagga tgtgcttgcc cttgcttcac ttgaggtgga 300
cctttccagt atccagccag tgaccacagt gaccgtgaaa tggcgtgtaa agccagtett 360
t 361

<210> 11446
<211> 396
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-027-Q1-K1-A9

<400> 11446

cccacgcgtc cgccctcggt cctgtcgcgc agccacgacc tccacttcca catcttcgcc 60
ggcggcggcg cggtcagttg aaccatggcg gactccaagg ccacctcggc ggtcaccctc 120
cgcacccgca agttcatgac caaccgcctc ctggcccgcga agcaattcgt gcttgaggtg 180
atccaccccg gccgcgcca cgtctccaag gcggagttga aggagaggct tgccaaggcg 240
tacgaggtga aggaccccaa caccatcttt gtcttcaagt tccgcacca cttcggagga 300
ggaaagtcca ctggtttcgg cctcatctac gacaacctcg aggctgccaa gaagttcgag 360
ccgaaatacc gnetcatcag gaatggtctt gctact 396

<210> 11447
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-B1

<400> 11447

accacgcgtc cgtaaactgg atgaacacag gtatcggtga gaggatctg gttctaacag 60
tgggtccaca ttatgttaag gaactcactt atggcccaga taaacgtgtt gagggtgatg 120
gtgtccttcg cacaaagcct ttgtgaaattg gcattgtaaa tggcatggat gtttatgaat 180
gggatccttc aacagataag tacaccagcg tgaaatatga tgcaacaacg gtaactgaag 240
caaaggctct caataaagag aggttgcaag ctgaagttgg attgcctgtg gactcgagca 300
tacctgatat agtcactgtc gggcgtcttg aagtacagaa agggctctgac atactcattg 360
catccattc 369

<210> 11448

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-B10

<400> 11448

cccacgcgtc cgcccacgcg tccgcgctca gggctctggct cgctatgcca tcatctggga 60
ggagaatggt ctgggtgccaa ttgttgagcc tgagatcctt gttgatggcc ctcatgacat 120
tgatcgctgc gcttacgtca ctgagaccgt ccttgctgcc tgctacaagg cgctcaacga 180
gcaccatgtc ctcttgaggg gtaccctcct gaagcccaac atgggtgactc caggctccga 240
ctccaagaag gtgacccttg aggtgattgc tgagtacacc gtccgtacct tccagaggac 300
cgtccctgct gctgtgctg ctgttgctct cctctctggg ggacagagcg aggaggaggc 360
caccgcgaac ctcaatgcca tgaacaagct cagca 395

<210> 11449

<211> 238

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-027-Q1-K1-B11

<400> 11449

cccacgcgtn cggctccacc agttgttaag aacaactgat gcttgcggtg ttacgaacga 60

gagcgaacca tgcattgaccc cccaaccaag ttcatttcat cctttcatgc atgtactatg 120
 tatgtagctc tacatatata tatattgcta ctactatcaa gcatgtatgt cgccgttgtg 180
 gagacacatc tattgatcta tacatgagct tgtggaagca gataggtctg cattaatt 238

<210> 11450

<211> 183

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-B12

<400> 11450

cccacgcgtc cgcagggatc ggattcggat caccatgccg tccaccgtga actccgcgtg 60

cggtcgacca gaaccttgag ctgcgaagc aatgctcgcg agagggccgc ctgcgagggt 120

tcaaggcagc agctgtcgcg accgtgcct ctgcagttcc caccctggtt agcgtcagga 180

tgc 183

<210> 11451

<211> 424

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-027-Q1-K1-B2

<400> 11451

agcaaagctc catcaccttg gcaggcttgt gtcacttgag atggggaaaa ttcttcctga 60

gagggatcgg tgaggttcag gaaatcatcg acatgtgtga ttatgctgtg gggctaagtc 120

gccaactaaa tggatccatt ataccatctg aacgaccaa ccatatgatg atggaggtgt 180

ggaatcccc tggagttgtg ggtgttataa cggcatttaa tttcccttgt gctgtgcttg 240

gttggaatgc ttgcattgct ttggtctgtg gaaattgtgt cgtctggaaa ggtgctccaa 300

caactccact gatcactatt gcaatgacaa aaatagtggc tagtgtattg gagaagaaca 360

acttgccagg cgcaatTTTT acatctTTTT gtgnggcac tgaaattggt caagcaattg 420

ccct 424

<210> 11452

<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-B6

<400> 11452

ggcaaagaca gcagcgcac acctgcaagt aggagcccta gtcgctcccc tcctcgcggg 60
acgccacctt ctctaagag atctcctgtc aggcacaatg atgaccgggc tccacgctca 120
cggagccctt caacataagc acaattcact tgcaaagcat cttcaacagc tcaggatgaa 180
tggacttgct ctgacacctat gtgtgtgtgg ctatgcttgt gctcaatggg gggcactttt 240
cagttaaagc tttgtagtgc tgtctgtcag ttgctgcctc aaacttggaa tactacttct 300
ggttggcacc tgaactgctt atcaaaaact ttatgtatac caattacatt ccacttttaa 360

ccttcatatt agtattacca tattataact gtcttttcag t 401

<210> 11453
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-B7

<400> 11453

cccacgcgtc cgcccacgcg tccgtcgcaa cgcaacagca acaacaattt ctaccaggac 60
taagccaact agctgtgggtg aacctgtcgc cctacttgca acagcagttg cttgcatcca 120
accacttgc tctggcaaac atagttgcat accaacaaca acaacaattg caacagtttc 180
taccagcgtc cagtcaacta gccatggtga accctgccgc ctacctaaa cagcaacaac 240
tgatttcac tagccctctc gctgtgggta atgcacctac atacctgcaa caacagttgc 300
tgcaacagat tgtaccagct ctgactcagc tagctgtggc aaacctgct gcctacttgc 360
aacagctgct tccattcaac caactgact 389

<210> 11454
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-B8

<400> 11454

cttcaaaacg agttgacaat gcggttttca ggcagtccag caggttgggg ccatggcgcc 60
gccagatcag atccccctct tcctcactca accgcagtgt tctcgtcgga gcaggcgatg 120
caaccacca ccattgcaag cgttgtattc ccgttgacgc agccactgtc accatcagca 180
atgaccaaac cacctcatgc tgcaccacca ctggaactga agctctttcc ataagtggca 240
tctggcgaaa gccatcaacc ctgtgaagac caccaagctc ccaacatgt ggcacgacca 300
ccggccaggt acccaacgca a 321

<210> 11455

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-B9

<400> 11455

actcgtaccg gaattcccga ctcgagcgtc gcgtggaagg gacttccgct agagatcaat 60
ggtcagggtct ctgccgtcat cagcatgtcg gtggggttcg acaaggccaa cgaccagggtg 120
cccgacccgg acgtcatcaa ggagaccgcc accaagacgt tccacgacct ctacgactac 180
ctactcaaga actagatgga gcgacaactg gagatgggtcc agtacagtac agttccagtc 240
cattcatcga cgcgtcacag ttactagtgc cagctcgtcg gtgtgggtctg gtgcccgtgc 300
tggttactta atttgcttgc tagctagcta cgtaccgagg tccgagtcct tgtctatggc 360
tgatgtttgc tgctgcgtc cgtagagcat acgact 396

<210> 11456

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-A3

<400> 11456

ggaccaagcc ttccgccaac ccatccaaca gcgtctctta actttgcaca cttgaacctc 60
ccgattgctg cggggggcaa ttcaactaga atcccagttg tgatgccact ttcagccgcg 120
atggcagcat gctcgcagtt gctggtggcc aggtatggcg agaagagtga tggctcgtg 180

acgaggaaag atgctgaggt tcctggttca gtggcagtcc ggccggagcg gaagctagac 240
cacgcgtgga tgggtgtattc gtcgctgaaa gaagagtctg gggatcaggc ggacacgtcg 300
caggtatgcg aagccctgct gactctactt gtcgaggttg cacaaaagag gacgcatgag 360
atggcaat 368

<210> 11457
<211> 311
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-G6

<400> 11457

ggacatgata acctcattgg ggaaattatc cgtcttgagg gcgattcagc tacaatcgaa 60

gtttatgagg aaacagctgg actgatgggt aatgaccctg tattgagaac aagaaagcct 120
ctttcagttg aattgggacc tggaattctt ggaaacattt ttgacgggtat ccagcgacct 180
ctaaaaacca tcgctattaa gtcaggagat gtgtatatc ctcgtgggtg ttcagttcct 240
gcccttgaca aagatgtatt gtgggaattt cagccaacga agctaggtgt tggagatgtc 300
atcacatgtg g 311

<210> 11458
<211> 342
<212> DNA
<213> Zea mays.

<223> Clone ID: LIB3059-026-Q1-K1-G7

<400> 11458

cccacgcgtc cgcccacgcg tccgcccacg cgtccgccc cgcgtccgcg gacgcgtggg 60
cagtgatgtt tcgtgcccac tgcagccttg ttgttgactg tggcttctct ttcacccatg 120
catcccctgt acttcagaac tttactctta attatggtgt tcggcgtatg gaccttggcg 180
gcaaggccct taaaaactat ctcaaggagc tcgtctcata cgttccctt aatgttatgg 240
atgaaactct cctcattgat gatgcaaagg aaaagctatg ttttgtctcg cttgatgtcc 300
ctggtggtct acacgttgcc aggttatcat ttaaggataa cc 342

<210> 11459

<211> 303
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-026-Q1-K1-G8

 <400> 11459

 ggggtgactgt tgggtgtgctg tactaggcaa gacaacaacc acatgagcac ggaggagggg 60
 gaagaggacg tatctgacgg gagcgatgcc cggagggaga tgaaggatgt ggccttggct 120
 ggagaggatt gcgtccgctt gctgggacct ggtccggaag taccactta caaggaaggg 180
 tgaggactac gccgacaccg acaccgactt cgacgccgtc acggacgagc tgttgtggtc 240
 gcgggactct taccctgac gcggggcgcc acttgctctt caccatcctg cagggcaacg 300
 acg 303

<210> 11460
 <211> 299
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-026-Q1-K1-H1

 <400> 11460

 catacgatgg ggtgaagtgt gtttctctga ccctgcacct gcagccatcc aggtaatgag 60
 acttgataca aaggcccttc ctccacatct ttaggccctt ctgttcaaga cctgaagctt 120
 ttctcccttt tctaagcgaa tcccccgagg ttgttgacca tgaacttgtt ggaaatgcta 180
 acggttgaca caatggagtg acaaatgcgg aaatgcctaa agcatcaagg gctgcacat 240
 gtaaattgcta gccaggcagg ttgcaacaaa aaaaaaaac accaggaagt tctgtgggc 299

<210> 11461
 <211> 404
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-026-Q1-K1-H10

 <400> 11461

 cgcacgcgtc cgcccacgcg ttcgcatgat ccaccccttg ttgcactgag ggggctgttc 60
 cagcgggcta attgtgatga actgcgagca ctacgcagtt tgctgatgag caatagaatt 120

ctgggcgaca attctaggca gcaggcttgc caaatccttg atgaggagat tgcgaagcaa 180
 tggcactgac cagcgtaaatt acaggatgtt gtactaacca attgtttggc atgattttgt 240
 tttgacggga taaatcagtt ttaaggcttg cttcttccgt tgcccttggtg cccattcttt 300
 tcattcttgt gaccataccc aattctttat tgcaagtggg gtcaacaagc atgaggctac 360
 agctgcatca cctgcaagga agtcaaaagt aagaggcaca tgca 404

<210> 11462
 <211> 304
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-026-Q1-K1-H11
 <400> 11462

ctacttacgc ttattgccat cactacaaaa gcatccatta ttgcacaacg ctcacttgct 60
 gctacttcca ttattccaca gtttctacca ccaattactt caatagcctt ctaacaccca 120
 tctacgcaag cctacttgct acaacaagca attgcgga ccatgttaca acaaccaatt 180
 gcccaatagc aacaacaatc cttggcacat ctaacaatac aaaccatcgc aacgcaacat 240
 caacaacagc tcctaccagc actgagccac ctcaccatgg tgaaccctgt cggctacttg 300
 caac 304

<210> 11463
 <211> 301
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-026-Q1-K1-H2
 <400> 11463

gggacacacc ccgttctgca ggcaggactg ccgctacgag cagatgcacc aggacgcggc 60
 ggcggcgacg gactacgcgc ggcagcaggc cagcagccgg cggaggcagc agcggagcag 120
 gggcggctct gtgtccgcca acgaggcgga cgtgtacgtg gccagctagt ttaagagcag 180
 ggcgaagcgc ggcgaggccg aggatggtga aggccgtgcg ctgcctgggt caagctagag 240
 aatcccgtcg gtggaggcgc aggcgctcac ggttggctgc ccgcctctgc gccgcacgag 300
 c 301

<210> 11464
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-H5

<400> 11464

cccagttcgg agagcttgag gtatgctgat gcttaaattgg tccatatacct ggagcgggac 60
acaaactgct gctgtatgg actcgtgcga ttcagggtga accatcagat tgtctagtgt 120
cttctttgta ataaatttat ctgttcttgg tactttgtct atggttgaat cggaacccat 180
tttcogtttg cctagattct taatttctgg tgctgtatcc agctgaaact agtagatcta 240
tgatcttgtg gctgcagcat gttcttgtca cttttatctg gtctccgttg gttcgggtca 300
caggttgtgt gctgtaaaag gctgtgctta 330

<210> 11465
<211> 303
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-H7

<400> 11465

cccacgcgtc cgggaaaaca acaaacctca tgcccctgct agaaaacctg ttcagagggc 60
agtcgtgaaa gctccatcac aggcgtctgc gaccacaaag gctgaagcaa gaccctgggt 120
cacaaggcca aagatctcaa actcgaaacc taaggcttca agggcaaagg ttgcgcgagc 180
gcaagaaacc ccagctgaag cccctccttc agaacctgct gctccagaag atttcacgggt 240
tgaacatggc gttggagacg ccacaggtcc tgatctgacc gcgcaattgg ttgcttcgaa 300
cga 303

<210> 11466
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-H8

<400> 11466

gcaaagcggc agtgcgtaga gaggatcgtc gaacagaaca gcatgaagat ggtcatggtt 60
ctcgtcgtgt gcctggctct gtcagctgcc agcgctctg caatgcagat gccctgcccc 120
tgcgcggggc tgcagggctt gtacggcgct ggcgcgggcc tgacgacgat gatgggcgcc 180
ggcgggctgt acccctacgc ggagtacctg aggcagccgc agtgcagccc gctggcggcg 240
gcgcctact acgcccgggtg tgggcagacg agcgccatgt accagccgct ccggcaacag 300
tgctgccagc agcagatgag ggttatggac g 331

<210> 11467
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-H9

<400> 11467
tcccacgctt ccacccaccc attttcatta tgcattcaacc taaccacaat tgggtggcaga 60
atattatccc tgcttgctgt acttgctgtt ttgctgaaca caacatatgc gttcattatt 120
acacaatgct cacttacttc tagttccatt attccacagt tcctcccacc agttacttca 180
atgaccttct aacacccaac tgtgcaagcc tataatctac aacaagcgat tgcgacgaac 240
gtcttacaac aaccaattgt ccaatttcaa caacaatcct tatcacatct aacaatacaa 300
accatcacia ctcaacatca acaac 325

<210> 11468
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-A10

<400> 11468
cggacgcgtg ggcggacgct tgggcaagaa ccgctttgag ccggcattcg tgaggaaccc 60
gctgcaggcg atgaagaagg acaccctaga acgcgcccgg gagcccaact tggatctgaa 120
ggcgctacct gccaaactgt acctgcaccc ggtgttcaag ggggacgaag gcgacgacag 180
gtactcgggt atggacgacg atgggtggat ggaggaggag gtgatcgtgc cgacgaagcg 240
gcattcgagg aggacgacgc ccgcgcagag caagcatgaa gggtcggact cgctctctgt 300

gctcgagagt tctctacagc ggtagtcaca gtaggagctt agcctgtaca gaatggatga 360
 aaatgatcac ggccctgctc cattgctttt gctttggttg ttggttggtc atgt 414

<210> 11469
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-A11

<400> 11469

accggaccgg aaggctcgga ccacgcgtgc gcggacgcgt gggcggacgc gtggggacgg 60
 gcaaaatcct ccgccggcgg gtgagggcgg agaggagccg cagctctcga agaatgcgaa 120
 gaagagagag gagaagagga agaagctgga agaggagcgg aggctcaagg aggaagagaa 180

gaagaacaag gctgcggctg ccagtggaaa acctcagaag gcatctgctg ctgacgatga 240
 tgacatggat cccactcaat actatgagaa taggctcaag gctcttgatt cactgaaggc 300
 cacagggtga aaccctatc ccataagtt cccggttggc atttctgtac ccgaatacat 360
 tgagaagtac aggaccttga gcgaggggga gaagcttaca gatgtggcag agtgtttagc 420
 tgggaggatc atg 433

<210> 11470
 <211> 353
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-027-Q1-K1-A12

<400> 11470

gacccgcggt ggggtgctcaa gaaatctttc nntggagaac cgtcnnattc gtgacnngcc 60
 gtcacctacc caccgagcac gcnccgccc caaggaaccg tnnaccgcc atnnggatgt 120
 nnngtctacg cgctttcaaa cgacaagggg gccgcacct tctttacggc tnntcggcgg 180
 gctaaggggt cgcttccttc aatcnntggt ggenganacc tgggcatgtn ngttgtcngc 240
 nncggtnnng ttgggtggtg tgggtggcct ttaatttnaa gtctaagtcc cccgttctct 300
 cttaatcgt cgcttgtn gn nttctggtg tgggtcttgg gtagtcccaa ttt 353

<210> 11471
 <211> 302
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-A2

<400> 11471

ggcaagtcac aaattttcct attctttcta cccttgctcg tgatgtgttg tctatgcaag 60
 tgtctactgt tgcttcagag tctgcattta gttcgggtgg acgcattgtt gatgcattcc 120
 gttcaagact caaaccagaa tttattgagg cattggtttg ttgtaaagat tggaagattg 180
 cttcggagaa agatttgagg attgaaatta aaaccttaag tgaacctatg aatgacgttg 240
 acttgaggga tgctgctgca attggaactt gagaagttaa agttcaagtt accatggatg 300

at 302

<210> 11472
 <211> 318
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-G5

<400> 11472

cgcgtttaga acctctaaaa tttccccac tcgccagtcg cagcagcacc tgtagccgtg 60
 gacgccagcg gagccgatag caaggggaag aaggggtgcg cggggcgcaa ggcaggcggc 120
 cccaggaaga agtcggtgac gcggtccgtc aaggccgggc tgcagttccc cgtcggccgg 180
 atcgggcgct acctgaagaa gggccggtac gcgcagcgcg tgggcaactgg cgccccgctc 240
 tacctcgccg ccgtcctgga gtacctcgcc gccgaggttc tggagttggc agggaacgcg 300
 gcgaaagaca acaataag 318

<210> 11473
 <211> 331
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-E7

<400> 11473

cagcatagaa agtggaatcc agtagcatca acagagcaac aatggcgacc aagatatgtt 60

ccgtccttat gctcctagct ctttctgcat gtgttgctaa cgcgacaatt ttccctcaat 120
gctcacaagc tcctatagct tcccttcttc ccccatacct tccatcaatg atagcttcag 180
tatgtgaaaa cccagctctt cagccctata ggctccaaca agcaatcgca gcaagcaaca 240
tacctttatc acccttggtg tttcaacaat cgccagccct atctttggtg cagtcatggt 300
tacaaccat cagaacacag taactgcagc a 331

<210> 11474
<211> 284
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-E9

<400> 11474

ggaattacga gctacgacgt acgcgtagcc ggacgcctac aggatccaat ttacttccc 60
cttcattct acttcatagg ggacctgtg tatcacctac atgcaattca ctgacacgga 120
tccttataac ggcgttactt gtaaaacacc tatgcttccc aactaaattg gcttgcagca 180
cataccaata cttctctcaa gcctaataca caaataccg aacacatcaa ctttaacaac 240
attctcgcat cctaaatggc gaattccacg cgctatgtct tctt 284

<210> 11475
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-F11

<400> 11475

cggacgcgtg ggtcctacca ctaccacagc accagcgacg gaccgggcag gcgagagga 60
agcagaccag acgagacctc tcgcgttcg tctctctccc tgcccctgct gccgttcccc 120
ttcttctca gttctcccg cgcgtgctgc cctcgcctcg cgtccagatc ccgccaccaa 180
ccgatccggc gccctccagc atggcggggg cgggggcgaa ggcggcgga gccctggctc 240
tggcgctcgt gctcgcgctc gcgggggcca actcggaggg cgacgcgctc tcggcgctgc 300
gccggagcct cagggacccc ggcgggcttc tgcagagctg ggacccacg ctcgtcaacc 360
cctgcacctg gttccacgct acctgcgacc gcgacaaccg cgtcacccgc ctagatcttg 420

gtaatttgaa cttatctggt

440

<210> 11476

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-F2

<400> 11476

atttggaatg gaatatctcc atgggaagaa tatagtgcac ttgacttga agagtggcga 60

atctgcttgt ctacctaaagg gatcctcaac ggcctatatg caaggttggt gatttgggat 120

tatcaaaggt caaatgccag acactaatct ctggcggagt aagaggaaca cttccttgga 180

tggeccctga gttgttgaat ggcagcagca gccttgtctc ggaaaagggt gacgtcttct 240

cgtttggcat tgtgatgtgg gagctactta caggtgaaga gccttacgcc gagctgcact 300

<210> 11477

<211> 297

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-F4

<400> 11477

cgagatcgga cacatggcgg cggcggctgt gacgtccaac ggcggcgcag tggccgggaa 60

cgggccggcg cccggcaggc tggcctccgt gtacagcgag gtgcagacga gccggctcct 120

gcacacgctg cccctccctt ccgtcctccg ctccaacttc tcggtcgtcg acggccccgc 180

cagctccgcc gcgggtaacc ccgatgagat cgccaagctc ttccccaacc tgttcggcca 240

gccctcggcg tcgctggtgc cgtcggccga gcccgggcg accaggccgc taaaggt 297

<210> 11478

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-F5

<400> 11478

cccacgcgtc cgcaacaagc aacatagaaa gtggaatcca gtagcaacaa cagagcagca 60

atggcgacca agatatgttc cctccttatg ctccctgctc tttctgcatg tgttgctaac 120
gcgacaattt tccctcaatg ctcacaagct cctatagctt cccttcttcc ccatacctt 180
ccatcaatga tagcttcagt atgtgaaaac ccagctcttc agccctatag gctccaacaa 240
gcaatcgag caagcaacat acctttatca cccttggtgt ttcaacaatc gccagcccta 300
tctt 304

<210> 11479
<211> 302
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-F7

<400> 11479

cccacgcgtc cgtgaagatg tactattgcc ttttttttac agattcattt gcgtattggt 60
ccgagtcttc tctttgctgc gagttgggta ttaattagga tgtgatattg ctttaatttcc 120
ccctgttttc tactcatttt ttggcccttg ataatgtcca cgagtatgta atagggacta 180
atgaatcaaa cgttgttaaa taaacatttc attccgtttt gctaaaaaaaa aaaaaaaaaa 240
agatcactgc aagaatgaac attttaccta cgtacatagc atgtagaccg atcaccagga 300
tc 302

<210> 11480
<211> 303
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-F8

<400> 11480

cccacgcgtg cgcggacgcg tgggtcctcc gagacctgca gccgactgag gctgagggtc 60
tggcgctgac cgatgaccgc acaacagtcg caggaagcac cggcaacact gccctgctg 120
caggccaaca ggggtcagga tcatcagcca tggccgtgga cgatgagcca cagccgccac 180
aaccctttga gtacacctcg tgagcgaccg agcgtcacct tttcttattc gttctttttt 240
tttgactttt tgagtatgta gtgtgcggaa atttggtgtt ggctggaaga cctttttag 300
aaa 303

<210> 11481
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-F9

<400> 11481

ccaggtcctc ctcgtcctcc atgccgcgga tctggtgggt cgccgaccta atgcggggga 60
 tgtcgcgcgc gaagcgtcga tcggccagga ggcagcaegc cgccacgtct gccgcggggc 120
 cccggctgga ggccgccgcg gacccggagg agcgagagcg gaaggcggcg ttcgagcggc 180
 tggacgatct gggacggtgc atcgcgagcg tggagagcag cggcgagaag gtgttcagag 240
 ccctcgtcaa caccagagtc tccctcctca acattctcag ccagtccttc tgattcccga 300
 acagctctgg gatcaccaga acccagcaaa ctcgactgca ttttgcgacc ttggataaaa 360
 gatgtagata gaaatgtgtg cgcgaaatgca atatagcaat g 401

<210> 11482
 <211> 381
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-G11

<400> 11482

acccgcgcgt acgcgggcct ggagatcggg ttccacgtgg ttgagttctc gaaccccgtc 60
 tacttcgcgt gacttgtgga atactaggac tgcgacggcg acgtggtgca ggtggacctg 120
 atggagtcca agacggcgcg cggcccgccg acggggcggt ggacgccgat gcgcgagtc 180
 tggggctccg tctggcgcat ggacaccaac caccgcatgc aggcgcctt ctccatccgc 240
 atccgcaacg agtccggcaa gacgctcgtc gtcaacaacg tcatcccggc caactggcgc 300
 cccaacacct tctaccgctc ctctgtccag tacagctagc tgatcgggat gcctgccttg 360
 ccctgccttg cccgcaattg g 381

<210> 11483
 <211> 284
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-E6

<400> 11483

cccacgcgtc cgagcgctaa ctgcaaccat gataacatgc gtccttgacc tataatagtt 60
gagagtcaaa tattagaggg catgagcgct aactgcaacc atgatatttg actctcaaat 120
aatttctgta ctgctgctcg gcagcgtgca tgcaaactga gcattttcga gtcagcctct 180
gcgtgtgtgc gggctaattc aactatgaaa ttcattcgaa tttctttcca ctttcacttt 240
ggatatctca gtgaatatgt aaatctttga tgttcttctg cttt 284

<210> 11484

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-G3

<400> 11484

cggacgcgtg ggcgcatatt gcaccaagaa atccatcgcg aggccatcaa cggggggggtt 60
aatggcgctc ttgtgtatct gcaagcacgc agcgctcatg ctctgagcag gcggtctgct 120
ctcgaagctc tcgactgcca gcgccagcgc cgggacctac tgcttgccag gacggggccat 180
gccgtacatc ccgattgcgc gctgcccgt gtgcgtgacc agtcggacct gc 232

<210> 11485

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-G4

<400> 11485

gatgatataa aggagactgg ctacacttac attatgccaa agaacatatt ggggaaaggc 60
atatgcatag cgtatctgcg gacacaaatt gctggatttt tgtatgggct gagtccacag 120
gacaatctc aagtcaaaga gattaggtgt atagccatcc ctccacagca tggaacacac 180
cagatgggtga ctctccagc aaatcttctt gagcacgagt tccttaatga tctagaacct 240
ttgggatgga tgcatacaca gccaaatgaa gctccacagc tatcgccaca agacctgaca 300

<210> 11486
 <211> 302
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-026-Q1-K1-C8

 <400> 11486

 gttctctgaa tattgtgaga ctaaatttga agtggaaacct gttgaagtga tacatcgtga 60
 tggaaggaaa acagtttacc ctgatctttc atgttacaaa atggatgttt tgttatctga 120
 cattcttggg cctattggca tctcccagga cgagaaacag gttgtctgtc ttttgaataa 180
 aatgcaactg caagctgaaa gtcactcctt gaaaggggag gctcgcattt cagtgtctgt 240
 tcctccaaca agaagtgata ttctgcatgc ccgtgatttg tcagaggacg ttgctattgc 300
 tt 302

<210> 11487
 <211> 447
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-026-Q1-K1-C9

 <400> 11487

 ttgcgagccg gaccacgcg tacgagcaac tagcaacata gaaagcacia tttgtacca 60
 acaatggcag ccaaaagatt gggcctcctt atgctccttg gtctttctgc aagtgtctgt 120
 accgcgacca tcataccgca atgctcacia gctactatag ctcccttct tccccgtac 180
 ctcttaccag tgatggcttc agtatgcgaa aacccaattc ttcaacccta caagatccaa 240
 catgcaattg catcatgcat cttaccttta tcaccttgga tcctgcaaca atcatcacc 300
 ctattacaac agttaccttt ggtgcattta ttggcacaca acatcatggc acaacaactc 360
 gagctagcac accttgctgc ctactcttag caacaacagt tacctttggt gcatttgatc 420
 gcacaaaaca ttaaggcaca acaacta 447

<210> 11488
 <211> 304
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-026-Q1-K1-D1

<400> 11488

acccacgcgt gcggaaggag caggctgctg gcctctagga atatatgaac attgatctgc 60
 gtctggtggg ggtatctgct tctgtgacga tgctcttaag tgatatcaga gtagatctga 120
 cccattggaa agcgaagcct cccactgaag caaaacctgc cattcttgat gagtttgctc 180
 atcctttccc tgagaatcac tgctatacta acagagcttt cgtggattgt acaccagata 240
 caagcgtcgc ctctcactat tatgattgac taactaaagc catacatgtc attactgcaa 300
 acca 304

<210> 11489
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-D12

<400> 11489

cacgacttcc gtccgagtct gagctcatct ccacgcgccg ccgccgccgc tggacgggca 60
 ccgcgcagcc atggcggaac agactgagaa ggctttcctc aagcagccta aggtgttcct 120
 cagctcaaag aaatctggca agggtaagaa gccaggcaag ggtggcaatc gattttggaa 180
 gagcattggc cttggtttca agactcccag ggaagcaatt gaagggacct acattgacaa 240
 gaaatgtcca ttactggaa ccgtttctat cagaggcaga attattgctg gaacatgcca 300
 cagtgctaag atgaacagaa ccatcattgt tcgcaggaac tatctccact ttgttaagaa 360
 ataccagagg tatgaaaaga ggcactccaa cattccagct cacatctccc catgcttccg 420
 tgtg 424

<210> 11490
 <211> 300
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-D3

<400> 11490

cccacgcgtc cggagaaaag cagagggggc cagatgagga gggacctcgc aggggtccgtc 60
 gctaccgccg cgtggtgttg ctccgcagcc gacgcgtcc ggggctggtg ggatgacgtc 120

aacgagtcgc cccagtggca ggacgcggcc ttcttctccc tcgccgacgg ctacgccctc 180
gtctcacgcc gtcgcactga ttcagctcgt caggatccag cgccgggtgc ccgagttcgg 240
atggaccacg cagaaggtct tacacctcat gaacttactt gtcaacgggg tccgtgctct 300

<210> 11491

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-D5

<400> 11491

agtcgatgga agccgtatta ttgttgaatt tgctaaagga gttcctcgtg gttctggggg 60

ttgacgtgag tacatgggaa gaggacctcc accaggaaca ggtcgttggt ttaactgtgg 120

aatggatggt cactgggcaa gggactgcaa ggctggtgac tggaagaaca aatgctaccg 180

ctgtggtgaa tcggggccata tagagagaaa ttgccagaac agtccaagga atctcaggcg 240

tgataaaaagc tattcacggt ctccatcccc acgtggtgga cgtggccgca gccggagcta 300

cagcagaagc cggatctata gccgttccag atcccca 337

<210> 11492

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-D6

<400> 11492

cccacgcgtc cgcgcaacag caacaacaat ttctaccagc actgagccaa ctagctgggg 60

tgaaccctgt cgcttgettgc caacagcagt tgcttgcac caaccactt gctctggcaa 120

acatagttgc ataccaaaaa caacaacaat tgcaacagtt tctaccagcg cttagtcaac 180

tagccatggt gaaccctgcc gcctacctac aacagcaaca actgatttca tctagccctc 240

tcgctgtggt taatgcacct acatactgc aacaacagtt gctgcaacag attgtaccag 300

ct 302

<210> 11493

<211> 307

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-026-Q1-K1-D7

 <400> 11493

 gcaaaagctg tggcccgagc acagaaggaa gctgagaaga agctgaagaa agaggagggg 60
 aaagccaaga agaaatctgg tgcagctgac actgatgagc cctcagaatc ggatgccaaag 120
 tctgacgaag ccatggaagc cccagcggaa caagaagtgg cccagcttc caccacggta 180
 aagaaagaac agaaggagag tgcccggtac aggaatgtgg tgagccggag caaggccccg 240
 ctaccaagg cgatcctgaa gaggaagaag gcgcagtcct actggtcatg ggctggccca 300
 gctgcca 307

<210> 11494
 <211> 302
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-026-Q1-K1-D8

 <400> 11494

 ctgccagttg gttgaatgga agcattgaac tctcctgctt atttacagca gcaacaagta 60
 ctaccattca gccagttagc tgggtgtgagc cctgctacct tcttgatata accacagttg 120
 ttgccgttct accagcacgc tgcgcctaac gctggcacc ctttacaact gcaacaattg 180
 ctgccattca accaacttgc ttgacaaaac ccagcagcgt tctaccaaca acccatcatt 240
 ggtggtgccc tcttttagat ttcttatgag ttatagttca ataataaagt tttttgtctg 300
 at 302

<210> 11495
 <211> 314
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-026-Q1-K1-E1

 <400> 11495

 gacccacgcg tgcgcgcgca ggccagtgcc gcaccatac cttatctccg ccacatatca 60
 gtcgtgggtc eggctaactg cactggacgg gactgcaccc aatggccacc acggcgaccg 120

aggccgacaa ggctccaccg cctcatgacc agcacgccac cggcaacggc cacggctagc 180
agaacacgcg ccaactgcgcg gtcggccaca acagcctgct caagagcgac gacctgtacc 240
aggtaaacaa gctgagcgca atgagtggat gaatctgacc cgcattctcag cctctgaccg 300
ccgggcaaga atga 314

<210> 11496
<211> 435
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3059-026-Q1-K1-E10
<400> 11496

gcaagctgcg ctgcactctc gatggtcattg gcggatatgt taacgccgtc ggcgtggggc 60
ccgatggatc gctctgcgcc tccggcggga aggacgggtg tactctgctg tgggatttgg 120
ctgaggggaa gaggctgtac tcgctggatg cgggctccat catccactcc ctctgcttct 180
cgcccaaccg ctactggctc tgcgctgcga cccaggactc tgttaagatc tgggaccttg 240
agtcgaagca cgtcgtgcag gacctcaagc ctgacatcca gatctccaag aaccagatcc 300
tgtactgcac aagcttgagc tggagcgccg atggaagcac cctctacact ggctacaccg 360
atgggtctat cagggctctg aagatctctg gatatggcta cgcangctag atgtcgaaat 420
ccagtccagg gtcta 435

<210> 11497
<211> 295
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-026-Q1-K1-E2
<400> 11497

gacaaattgt gcagcaagcc gcatgcttcc ggctcgctgt ttgggtggagc cgggtggagag 60
cacgccgtga tgccgctgtg tggtcgctgt ttttgacag ccccgaaacat cgacgtcggt 120
caccctgag agaaccccg gttttgcgag aagaaggaa gccgctcgac gctcgctgat 180
gttcgtagcg atgcacaaat cggaatctcc atcgctctca caaacatcga ttgggtttgt 240

ttatggaccg ataggtgacg atcgtgcaag cgatgtggtg ccaaccacaa gatgc

295

<210> 11498
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-C7

<400> 11498

cacgtggttc aggtggctca cgtgaatata tggggagagg ccctccacca ggtacaggtc 60
ggtgtttcaa ctgtggagtt gatggtcact gggcaagaga ctgtaaagct ggtgactgga 120
aaaacaaatg ctaccgttgt ggagaaaggg gccatataga aagaaattgc cagaacagtc 180
ctaggagtct caggcgagag agaagttact cacggtcccc atctccccgc cgtggacggg 240
gccgcagtcg aagctatagc aggagcagga gccggagtcg gagctatagt cgatcaagat 300
ccctgtgtag atcttctatt ggaggtcgtc gtgaccgta ctgttggttag atcaaggagt 360
cctagctata gctggaagcc ctatgcgac 390

<210> 11499
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-E5

<400> 11499

ctagcaacat agaaagcaca atagtgtacc aacaatggca gccaaaatat tttgcttgct 60
tatgtcctt ggtctttctg caagtgtgc taccgcaacc attttccac aatgctcaca 120
agtcctata gcttctttt ttccccata cctctcacca gcggtgtctt cagtatgtga 180
aaaccaatt cttcaaccct acaggatcca acaggcaatc gcagcaggca tcttaccttt 240
atcaccttg ttcctccaac aaccgtcagc cctattacag cagttacctt tgggtgcattt 300
gttggcacia aacatgaagg cacaacaact acaacaactt g 341

<210> 11500
<211> 304
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-A7

<400> 11500

cagaagcaga agccaccgat cggcgtgccg cgtgcgtgag gcgatcggag catcccggcc 60
cgaggaggaa gacaaccggc gacgcggggg gaacatgggg aagacgccgg tgcggatgaa 120
ggcggctcgtg tacgcgctgt cgcctttcca gcagaaagta atgccggggc tgtggaagga 180
catcaccacc aagatccaac acaaggtcac cgagaactgg atcttcggca cgcttcttct 240
taaccccgtc gtcggcacct accaatatccc catgtggtac aaggagccag aaaagctttt 300
ccac 304

<210> 11501

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-A8

<400> 11501

ctctccgaca catgagaacg gtgaacacag catcgcaag aagaatgggt gagctgagct 60
gagctgcttt gattgctcaa actgagggag ctgacgaatg gagttgggtca acataacagt 120
tatatctagc ttgaacgatt gtcaggaccg atggcgatga cagattccaa gctgggttaga 180
tcaccttgtc gggcttaggc ggaatgtata tttgctgctc atgatattat agtatgtaag 240
accataaacg gtgagttggt gatgcgctat atatcttgga ataaagctca acttcttcca 300
aaa 303

<210> 11502

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-A9

<400> 11502

gagctacgac ctacgcgtcc gccacgcgt tcgtgataag attgcctttg ttcccatttc 60
tggttttgag ggggacagca tgattgaaag gtacaccaac cttgactggt acaaaggccc 120
aaccctgctt gaggctctag accagatcac cgagcataat aggcctttac acaaacctct 180

gcttctgcc cttcagcatg cacacatgat tgatgccatt agaacagtac caacatgacc 240
cagaggagac tcataacatg aatcctggta tggaaactcac ctaacgtgca actgagctct 300
atacttacga ggattatgcc tatatgcacc aaagagcact tcaggaaagc ttttaccatg 360
ac 362

<210> 11503
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-B12

<400> 11503

gttacacatt cggatcgcca tgtcagactc ggatgagcac cacttcgaat tggatgggcg 60

cgccggatcg tccaagacct acccagcaca tgctggcacc gtccgtatga actgcttcat 120

cgtcacaaag aaccgaccct gcacggctgt ggaggtttct accttaaaga ctgataagca 180

tggatcatgcc aaatgctact ttgtagccat agatatatcc aacggtaaaa agttcgaata 240

tattggctct tcatgacaca tactgcatat tacagctgtg aaccgtactg agtatcacat 300

gattgatata tcagactatg gattagcgag ctttcttact tcagatggta acactaatga 360

tgatcttaaa ctcccaactg attatactct tgtagcccag atc 403

<210> 11504
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-B2

<400> 11504

cggcgcgtgg gatgggtttt aggcaggtcg atctcaacaa ggaaatcctc aggcagaaca 60

attacaatct agagcagtct gtcgatgacc tatgtggcgt caatgaatgg gatcctctcc 120

ttgcagagct ggaagagatg ggatttgatg acacagagat gaacaaggag ctgcttgcca 180

agaatgaggg aagcatcaag cgagctgtga tggagctcat tgccaggag aagaaggaca 240

agtgaagatc gtgtgctatc taagtatata ttcgtaaata atgagacggc tgtgcc 297

<210> 11505

<211> 304
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-026-Q1-K1-B6

 <400> 11505

 cggacgcgtg ggcggacgcg tgggcgcgcc tctacatttc ttctctctct gtcctgcgc 60
 ctgcgcctga tccatgcaag acagggatcg ccatgtcgga ctcgaggag caccacttcg 120
 aatcgaaggc cgacgctggg gcgtccaaga cctaccgca gcaggctggc accgtccgta 180
 agaacggctt catcgtcac aagaaccgtc cctgcaaggt tgtggaggtt tctacctca 240
 agactggtaa gcatggccac gccaaatgcc actttgtcgc catagacata ttcaatggga 300
 aaaa 304

<210> 11506
 <211> 305
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-026-Q1-K1-B7

 <400> 11506

 cccacgcgtc cgacctggag aagtaccgca aggatgctga gatctgcgtc aacgcgggtg 60
 aggaatccgt acgtgcatct cttggaaaga ggaagaccgc ccctaagccg ccctctggcg 120
 cagacgctaa gaagcttaag atttggttgg gaaagaacaa agtagaagaa gatgaaagtg 180
 atagcgatag tgacagtgc atggatgatg aggacagtga agatcaggag agcgcagatg 240
 caaaatctct cgtagttgat gaaggcaatt gctcaaatgg atccataaaa aatgagaaac 300
 ttgat 305

<210> 11507
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-026-Q1-K1-B9

 <400> 11507

 acccagcgt ggcgccacgc gtaccagcac acctgcgcaa ctagcaacat agaaagcaca 60

ttcgggtgcc gacaattgta tccgaaagat ttggtacct tacgtcctt ggtctatgtg 120
cacatgctgc taccgcaacc atttttccac aatgcttaca agctactata gcttccttc 180
ttgcaacata catctcacca gccctatatg caactgcaga caaccaatt aggcaacatt 240
cctggatcac aacttgcagt ctcaacaagc atcttaccta tatcaccctc agtcatcgca 300
acacacgcaa gacgtatcac aagatgtacc tactgtcgct acctgggaac aaccattag 360
gtctcaccaa ctactataac tagtgttagc aacacttgct gcatacttcc aaccaacatg 420
agtacac 427

<210> 11508
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-C1

<400> 11508

gcaaattgca ccaagaaatc catcgagagg ccgtcgacag gggaattaat ggggtcgggg 60
tctagcagca gccaccgccg cctcatcctc gcagccgccg tctgtctctc cgtgctcgcg 120
gctgccagcg ccagcgccgg gacctcctgc gtgccggggt gggccatccc gcacaaccgg 180
ctcccagact gccgctggta cgtgaccagc cggacctgcg gcatcgggcc gcgcctcccg 240
tggccggagc tgaagaggag atgctgccgg gagctggcgg acatcccggc gtactgc 297

<210> 11509
<211> 167
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-C10

<400> 11509

cttcctttta ccttttcacc aacaaaactt atattccatc tcattctcaa ttcattatac 60
cattctccac attcttcaaa tcttaaacac ccattttcaa ccttatctac aacacaattc 120
actactttta cacaccaatt ccattcaaca acatctttct acattac 167

<210> 11510
<211> 369
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-C11

<400> 11510

cccaattgga cccacgcgtc acgtacact ggaactccgg ctaatcttaa ataccatggc 60
gacacattca aatctcctgc gtgtgcggta acttccacga ttagtgatca acatcattct 120
acacaaaccc tggatcaatc cctatatgga cccctaccat acacccttct acaatatacc 180
tgaacggcaa cgctaatacag ttgctgcaag agaaggetta agcttactt cttgactact 240
tgtacaggac tccagtagcg attcacatca aacactctgt atcagatgca aagcccatca 300
cgcttaccat taagaacat gactacatat gtgacattaa catactgaaa gagtaccttg 360
gcaaagata 369

<210> 11511

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-A6

<400> 11511

cccacgcgtc cgcaacagcg ggggtgcatg ggacaacgcc aagaagtaca tcgaggccgg 60
cttgtcggag gaggcgaggt cgctggggcc caagggatcg gaggcgcaca aagcggcggt 120
gatcggggac accatcggcg acccgctcaa ggacacctcc ggaccgtccc tcaacatcct 180
catcaagctt atggccgtgg agtcgctcgt cttecgcccc ttcttcgccg cgcacggtgg 240
catcatcttc gaccacctct gatcaatgca tgetgctgac gttccatggc aaaggcgccg 300
gc 302

<210> 11512

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-C5

<400> 11512

cccacgcgtg cgctaccatt cagccagcta gctgctgtga gccctgctgc cttcttgaca 60

caggaacagt tggtgccgtt ctacctgcac gctgcgcta acgttggcac cctcttacia 120
 ctgcaacaat tgctgccatt caaccaacat gctttgacaa acccaacagc gttctacaa 180
 caacccatca ttggtgggtgc cctcttttag attgcttatg agttatagtt caataataaa 240
 gtttttttgc tgatgtttgt ggcttcccaa aaataagaaa gtgcatttct agtttctt 298

<210> 11513
 <211> 304
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-C6

<400> 11513

caactcctga gcactttctc ctctgtcccag acaagccaat cgaagccgag atacgacgat 60

gggctccacc ggcaccggag cagggggtaa ggggaagaag ggagcggccg ggcgcaagg 120
 cggcggggcca aggaagaagt cggtgtcgag gtccgtgaag gccggtctcc agttccccgt 180
 cggcgcgcatc gggcgctact tgaagaaggg ccgctacgag cagcgtgtcg gcaccggcgc 240
 ccccgctctac ctgcgcgtg tcctcgaata cctgcgcgt gaggttctgg agctgcgcgg 300
 taat 304

<210> 11514
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-H1

<400> 11514

cctatcgagt cgategaaga cccatttgat caggacgact ggagcactta tgccaaacgc 60
 actgatgaga ttggacagaa agtgcagatt gtaggagatg atcttctcgt taccaacccc 120
 accaggggtcg ccaaggccat caatgagaag acctgcaatg ctctcctctt gaaggatgaac 180
 caaatcgggt ctgtgaccga gaggatcgaa gctgtcagga tgtccaagcg cgccggatgg 240
 ggagtgatgg caagccacag gaggggcgag acagaggaca ccttcattgc tgacctetca 300
 gttggcctgt ctacgggcca aatcaagacg ggagctcctt gccggtctga gcgcctggcc 360
 aaatacaacc agctgctcag gatcgaggaa gagctcgggt atgccgcggg ctacgccgga 420

gcaaagttca gggcacc

437

<210> 11515
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-H12

<400> 11515

cccacgcgtc cgcccacgcg tccgcccacg cgtccgccc cgcgtccgcg ccgccgggga 60
aggacggaag gagaagaggg tacggccgtc tcctcgcccc catggcccac gagaagaagc 120
tgtccaaccc gatgcgggag atcaagggtg agaagctcgt cctcaatatc tccgtcggcg 180
agagcggcga ccgtctcacc cgcgcgcgaa aggtgctcga gcagctcagc ggccagaccc 240
ccgtcttctc caaggcgagg tacacgggtg ggtcgttcgg catccggcgt aacgagaaga 300
tcgcctgcta cgtcacggcg aggggcgaga aggccatgca gctgcttgag agcggcctca 360
aggtcaagga gtacgagct 379

<210> 11516
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-H2

<400> 11516

cgaaggaggg tgcactggct gaagagaaca tgcgcgggat ttgcttcgag gtctgtgatg 60
tcgtttctca tgccgatgct atccacaggg gtggtggcca ggtcattcca actgccagga 120
gggtcattta tgctttctcag ctacacagcca agccgaggct gctggaacca gtttacctgg 180
tggagatcca ggccccagaa aatgcacttg gtggcatata cgggtgttctg aaccagaaga 240
gaggacatgt attcgaggag atgcaaaggc ctggtacccc gctctacaac atcaaggctt 300
tcctccctgt catcgagtcc tttgggttct caagccagct gagggtgca acctctggtc 360
aggcgttccc ccagtgtgtg tttgaccact gggacatgat gggctcggat cctttggagg 420
ctggctccca ggct 434

<210> 11517

<211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-H3

<400> 11517

```

cccacgcggg cgcacaggct gaagagcaca cgctcgggat ctccttcgag gtctgctagg   60
atcgacttaa tgccctggct ataaatatgg ttcttattca cagcatcaca tctgatcaaa  120
gggtcaatca tgcttctaca gtcacaact caattgcagc tgctggatcc agttcaccta  180
gctctagatc catatcctac agaaactgca actactacca tatcacggt ttctaccgaa  240
accatacatg catcttgaca cacaccaggc gctgtacctc tactctacaa gctctacgtt  300
acgctggctg tcttttacta ctgcgacaat tgctgccatt taaccaactt gatctgacat  360
aacgcgtagt gttatagcga caacgaataa tgggacatga                               400
  
```

<210> 11518
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-H4

<400> 11518

```

caaccaatga gacgctgctt aatgggcatt acaacatagt gtttgtagtg ttttttgggc   60
gaagctaatt gcggtccgtc tcttcattgg aactcatagc agtaccacac aaccagttag  120
accataccac taattttatt ataccactag aaccagcttc tcactagctt ctcaccaggg  180
gtttgacttt gtaacatagg agatacagtg tgctcttctg gaacttcac cccaacatca  240
tcctcactga tcttgtgcag tacttggcac ttcagtgcg gcttcaaata caacattatc  300
tcctggattg tgactctggt ttggggtcgt ggctatatca gtttgcatat tatctggagc  360
cttctgaagc aactctttta ttatagcatc agaatgtaag gtttctatct ctatgggtag  420
atcactgact gacgc                                           435
  
```

<210> 11519
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-H5

<400> 11519

cctttatcac ccttggtgtt tcaacaatcg ccagccctat ctttggtgca gtcagggggg 60
caaaccatca gggcacagca gctgcagcaa ctctgtgtac ctgtgatcaa ccaagtagct 120
ctggcaaacc tttctcccta ctctcagcaa caacaatttc ttccattcaa ccaactgtct 180
aactgaacc ctgctgctta tttgcagcaa caactattac cattcagcca gctagctact 240
gcctactctc agcaacaaca acttcttcca tttaaccaat tggccgcact gaaccccgct 300
gcttatttgc agcagcaaat actactacca tttagccagc tagctgcagc aaaccgtgct 360
tgcttcttga cacagcaaca gttgctgcct ttctaccagc agtttgcggc taaccccgca 420
accctcttac aacta 435

<210> 11520

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-H8

<400> 11520

cccaaccaat gagactctgc ttaatgggtca ttacatcata gtgctggtaa cgtcacttgc 60
gcaatggaat tgcaggccgt ctattaattt gaactcatag cagtaccaca caaccagtga 120
gaccatacca ctaattttat tataccacta caaccaactt ctacttagct tctcaccaca 180
ggtttgactt tgtaacatat gagatacagt gtgctcttct ggaacttcat cccaacatc 240
atcctcactg atcttgttca atacttggca cttcactgac agattcaaat acaacattat 300
ctactggatt gtgactctgt tatagaggtc gtggctatat caagttgcat attaatctga 360
gccttt 366

<210> 11521

<211> 190

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-026-Q1-K1-A1

<400> 11521

gaggggggag ccacgcgnc gggagaagac ggggggggac cngagagcag acgcaccagg 60
caccagaagg gngaacgggg ggaacngcga ggcggcgaga acacaaaaag ccgaacaaag 120
cggaggcgca cgaaacaagc ancagcagng ggcagcgaac cgacccggac aggaagaccc 180
accgcagaag 190

<210> 11522
<211> 123
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-026-Q1-K1-A10
<400> 11522

cgcacaaagta aggtgtatcg ctctccccgc ccgcaagcca gtggcggtccg agccgcgtcg 60
ctcgtgtctc ctacgaccct ctacaactca gcggatccgc cgactcgcct atcgatggcg 120
tca 123

<210> 11523
<211> 386
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-026-Q1-K1-A11
<400> 11523

tccgaattcc cgactggagc cagcgtacg cgtgctgcca gcgtgtacac gaggaggttt 60
ccttttcaca tccgaacact ccttagtgtg ctgggctcct cttctgcggg gccacagcaa 120
tccgcagata ttagctgact cgtgaccgac tgctatagct acccttcttc cgccatgcct 180
gctatcaaat gtagttatag tccgacgaag cacaccatgt aagacgctat aaggttcaac 240
accattgtcc gacgggcaac ttccacacat taccatttc tggtagaaag aagtccgaac 300
gaatcatgct gcactagatt gtacaaacca agagctcaca ccatgttgta caactactac 360
taacgtagag ccattctactt tgacca 386

<210> 11524
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-A12

<400> 11524

caagtcgcat cgcacgtacg gtctcaggcg catcggcctc gccgctgcac agcgccggag 60
acgatacgac ggagggtacg ggatgacggg cttccacttc ctcaactgcg ctttcctcac 120
cttcgggcct cagtcgtct actactccgc cagccccctg tcagagtatg atacaatcgg 180
cacttctata aaagcagctg ctgtttatct tggaactgcg cttgtaaagc ttgtttgctt 240
ggcaacattg ctcaaagtac ctgagaatga tagctttgac ccctatcagg agttaatgaa 300
agtttttatt ggattcatag atgtagctgg actgtatttt gctttgaccc agctgaccca 360
cagaaacatc tctcagaatc ataagttcca ggctgttggt cttgggtggg cttttgctga 420
ttcagttttg caccgac 437

<210> 11525

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-A2

<400> 11525

gcgtgcagaa taacaccaga ctttatgcc aagggtcgaaa acctgttcat aggggacgtc 60
tgaaagctgc ataacacgcc tctgccacca cctaggatgc agcaagatcc tctgccacat 120
ggccaatgat atcaaaatcg aaacctactg cttcaaggcc aaatgttgca cgagcgccag 180
acacctcacc tgatgccgct gtttcataac ctgctgggtcc tgaagattcc acggctgcac 240
atggtgttcg aaactccaca ggtcctgatc tcaccagcca attgacagct tcgaac 296

<210> 11526

<211> 301

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-A4

<400> 11526

cccacgcgtc cgcccacgcg tccgaccagg cgagccaaca agcaagcaaa agtaaaccgg 60
gcgaggagct gtagagacgc cggcgacgcg aagcaaccgc ccgatcggag ccgagggtga 120

gcaggagggga gccggagatg gtgggtctcg tcggcggcag cacggcgcgg gcggagcacg 180
tcgtcgccaa cgccggaggg gaggcagagt acgtgcgccg catgcaccgc cacgcgccga 240
ccgagcacca gtgcacctcc accctcgtca agcacatcaa ggcgcccgtc cacctcgtgt 300
g 301

<210> 11527
<211> 307
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-026-Q1-K1-A5
<400> 11527

ggagagttcg ttgggggatc tgatatcata ctcaccatgc accagaaggg tgaactgagg 60
gaactgcttg gcgatatagc aaaaaagcc gaacaaagt gttcttcatg aaacaagcat 120
cagtatttgc gatgcaaact tcccggactg gatgttcctt ctcagaagat tttaggtgat 180
cttgcatgtg tgcctgtgg ctteggattt gaatacgttc tctgttttgt tctgttctgt 240
tcttgccagt tgtgatggaa gatccactca aggccgaatt gcacgagtaa ccaaagttat 300
agttctc 307

<210> 11528
<211> 396
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-025-Q1-K1-G9
<400> 11528

gaccacgcg tacgatgaaa tttcaaaga tctcgtgcg ctagtccatg atcaaggagc 60
aatgatcgat gagatggatt cccatataga gaacgccgtt gtagcgactt ctcatgctaa 120
aggccagctt tcaaaggctg ctaaaactca gaagtcgaac tcttctctga tatgctcgtt 180
gctcgatatt ttcagagtgg tctgctcat agtgataata gtacttgcag cctaaaagct 240
tggaaggaca cctgggggtc ccaaactga tcgagagctt attgcgacaa attccttcat 300
aagctatfff tgctgtgctg ctaagaatga ttcttggtac ccaagcggtg attggcgctc 360
tgcttggtgt gtggcagcat atgtcgtgat gatcaa 396

<210> 11529
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-F5

<400> 11529

gccacagctt gcagatggaa tggcagaagc tgttgcaaac attgctgctt tcttgagaga 60
acaacatttg ttgccatttt acccacaggt tgtgggaaac attaatgcct tcttgcaaca 120
gcaacaattg ctaccattct acccacagaa tgcggcaaac attgttgcct tcttacaaca 180
acaacaattg ctgccattta gccaacatgc tttgacgaat cctaccacct tattgcaacc 240
gcccaccatc ggtggtgcca tcttctagat tttttatgat ttatactgta ataataaagt 300
tctcatgctg 310

<210> 11530
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-F6

<400> 11530

gtgaaaaccc aattcttcaa ccctatagga tccaacaggc aatcgagctt ggcattcttgc 60
ctttatcacc ctgttctctc caacaatcat cagccctatt acagcagtta cctttggtgc 120
atttattggc acaaaacatc agggcacaac aactacaaca acttgtgcta gcaaaccctg 180
ctgcctactc tcagcaacag cagtttcttc cattcaacca actagctgca ttgaactctg 240
ctgcttattt gcaacaacaa ctaccattca gccagctagc tgctgcctac cccaacaat 300
ttcttccatt caaccaactg gcatcattga actctcctgc ttatttacag cagcaacaac 360
tactaccatt cagccagcta gctggtgtga gccctgctgc cttcttgaca catcaacagt 420
tattgccgt 429

<210> 11531
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-F7

<400> 11531

cccacgcgtc cggcaacata gaaagcacia tagtgtacca acaatggcag ccaagatagg 60
gtgcctcctt atgctccttg gtctttctgc aagtgtgct accgcgacca ttttcccga 120
atgctcacia gctcctatag ctcccttct tccccgtac ctctcaccag cgggtgtctt 180
ggtatgtgaa aaccaattc ttcaacctta taggatccaa caggcaatcg cagctggcat 240
cttaccttta tcacccttgt tctccaaca atcatcagcc ctattacagc agttacctt 300
ggtgcattta ttggcaciaa acatcagggc acaacaacta caacaacttg tgctagcaaa 360
ccttgctgcc tactctcagc aacagcagtt tcttccattc aaccaactag ctgcattgaa 420
ctctgctgct tatcttg 436

<210> 11532

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-F8

<400> 11532

cccgcgtcac gggcgcgttt ggctttgtca gctccctcat agcttgctac cagcgtgggc 60
caagcccacc agcaaagcag atcaagttag gacttcgact ccaagcactg tttaccagga 120
aaataatccc tctgatagg ttcgatttgg ttgccacata cccttgtagt gcagactaga 180
ctaataatg taatcatcat cataataatt gataaaccat ccactatgg ataggtagg 240
tcaactcaag cactgtttta ctgtattcat cctccaaaag catgctaag cccgtttagt 300
tcgatggact aaacattaat gtctctattt tagtctctaa attgtcaaac gatgagacta 360
aaataaagac taaactgttt aggatatagt cactcaaaag gactaaaaat gactaaacca 420
tattaattct a 431

<210> 11533

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-F9

<400> 11533

cactcgtagc cgccggcaag gcgactgacc tctttcctgc tgccgagcgc catcgtcgcc 60

tcggaccatc tcaacctaaa actggtggga acggcggcca acccgtctag ggcttggccc 120

tggcggtttc tgagcctaga acatctttgc attttggaga gtcttcactt ggagctattg 180

gacaggcttc attcctttca acgagatggc acgttagtct ggtctctcgc ttgtgaggga 240

tcgagccaag accggagcgc tgaaacgtct gactctgagt tcacgaaaa 290

<210> 11534

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-G1

<400> 11534

catttatgca gaagctgcat gctgttcgcc agatgggagt gaatttgagc ttcttgctgt 60

tcgtagtgtt cctgatggag aagcatcaac acaacaagat ggagtaattc ttctttttga 120

tgcagaaagc tcaaacccca ttgcctcctg gtcggtaaag aaggcatcgg gtggcagcat 180

ttctttttgta aaaggtgacg tccctttgga tgcaaagtct gatagttcga gagacaaaga 240

gccaatgttg cttgattatg taaatgggtc tcataaatc gccatctttg atccccggga 300

gagtgaggag gtggtcatta gcaagaacaa gcacaagaag attcaagctg aggaacctgc 360

accaatcggc tacgcttcta ttacggaga gcttacaaaa ct 402

<210> 11535

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-G10

<400> 11535

ggatgacttc gccttctatg agatcgcca gaagctgatg caggataaga ggtcgaggca 60

gcagcaggtc caaaagcagg tctgggacag taggaccccc atttctgtca ctggaagcga 120

gcaacagcag gaagctgcca atgggaagcc caatccgtct gtaccaaacg gtgtccctgc 180

agaggtgaag gcggcgaagg cttctgcaga gaacggcacc gccactccag ctatttccta 240

cgcggaag gtggccaag cagcaacaga gaaacctgtg ctcgccaacg gagtcgctaa 300
gaccggtag ctggaccgcc caaccgatgc tccatagcta gccgcgagcg acggtcgacg 360
tccccaagag ctcgaccgaa tcaactgtaca agggaaactg gtga 404

<210> 11536
<211> 398
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-025-Q1-K1-G11
<400> 11536

cgggcctgaa gatcgggttc cacgtggtgg agtactcgaa ccccgctctac ttcgcggggc 60
tgggggagta cgaggacggc gacggcgacg tgggtgcaggt ggacctgatg gagtccaaga 120
cggcgcgcgg cccgccgacg gggcggtgga cgccgatgcg cgagtcctgg ggctccgtct 180
ggcgcacatgga caccaaccac cgcacgcagg cgcccttctg catccgcata cgcaacgagt 240
ccggcaagac gctcgtcgac aacaacgtca tcccggacaa ctggcgcccc aacaccttgt 300
accgtcctt cgtccagtac cgtagctga tcgggatgcc tgcctgccc tgcctgacc 360
gcaattggag cttgctgacg ctggggctct acttggct 398

<210> 11537
<211> 372
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-025-Q1-K1-G12
<400> 11537

gggttggtt ctcctcccc tccggttcgg gttcgggttc gtgaggttct ccgggggtcg 60
gggtcgtggg tgagcggatc gagatggcgg cgtcggatgt tgagtaccgc tgcttcgtcg 120
gcgccctcgc ctgggccacg gacgaccact ccctccacaa cgccttcagc acctacggcg 180
aggtcctcga gtccaagatc atcctcgatc gggagacgca gaggtcccgc ggcttcggct 240
tcgtcacctt cttcacggag gaggcgatgc ggaacgccat cgagggcatg aacggcaagg 300
agctggacgg tcgcaacatc accgtcaacg aggccagtc ccgctgcggt cgtggaggcg 360
gcggcagtgg gt 372

<210> 11538
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-G2

<400> 11538

gaaacctggc tgcctagtct gagcagcagc agctcgttac atgcaaccaa ctgtctggag 60
tgaactctga tgcttatgcg caacatcaac taccattcag tcagctagct gctgcctaca 120
cgcagcaata tcttccatac aaccaactgg caccattgaa ctctgatgct gatttacaac 180
agcaacaact accaccattc agccagctag ctgatgtgag ccttattgcc tacttgacac 240
agcaacattt gttgccggtc tacctgcacg ctgcgcctaa cgttggeacc atcttacaac 300
tgctacaatt gctgccattc aaccaacttg ctatgacaaa cccaacagcg ttctaccaac 360
aa 362

<210> 11539
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-G3

<400> 11539

cccacgcgtc cgcccacgcg tccgcccacg cgttcgccca cgcgtccggt tggcttctgg 60
tggcccttcg gttcgggttc gggttcgtga ggttctccgg ggttcggggt egtgggtgag 120
cggatcgaga tggcggcgct ggatgttgag taccgctgct tcgtcggcgg cctcgcttgg 180
gccacggacg accactccct acacaacgcc ttcagcacct acggggaggt cctcgagtcc 240
aagatcatcc tctatcggga gacgcatagg ttcttgcgct tcggcttcgt caccttgttc 300
acggtggaag cgatgcggaa cgccatcgac ggcattgaact gcaaggagct ggacggccgg 360
aacatcaccg tcaacga 377

<210> 11540
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-G4

<400> 11540

cccacgcgtc cgggcatctt acctttatca cccttggtcc tccaacaatc atcagcccga 60
ttgcagcagt tacctttggt gcatttattg gcacaaaaca tcagggcaca acaactacaa 120
caactcgtgc tagcaaacct tgctgcctac tctcagcaac agcagttacc tttggtgcat 180
ttgttggcac aaaacatcag ggcacaacaa ctacaacaac tcgtgctagc aaaccttgct 240
gcctactctc agcaacaaca gtttctgccca ttcaaccaac tagctgcatt gaactctgct 300
gcttatttgc agcaacaaca actactacca ttcagccagc tagctgctgc ctacccccgg 360
caatttcttc cattcaacca actggcagca ttgaactctc atgcttatgt acaacaacaa 420
caactactac cattca 436

<210> 11541

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-G6

<400> 11541

gaaaatttga aaaggggcct tttgagatct tctctgttgg taataacgat tcagagggggc 60
atgtcataaa gttcagcagt gatggcaggc ggattctgtt aaccactaaa gctggacgtg 120
tccatgtgct agattcattc catggcaata gcattgcgtc gtgcaatgtg aagccagtgg 180
taaccaactc aacctggag gcgtcgttca gccctgatgg aaaccatata atatctggct 240
ccggtgacgg tagtgtttat gcttggaatg ttaggagtgg aaaggctcgc cgctggggaa 300
gcacagacga cgaaccgtcg ctggtaaggt gggctccagg atccttgatg ttcgtgacag 360
gatcatcaga actgtcatgc tgggttccgg acctgtctaa gctgggatcc tttaccatta 420
gcaagtaggt gaaa 434

<210> 11542

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-G7

<400> 11542

gtgatgacca gaaccgtgaa ttgattcttt cccgtatcaa ggtccacttg aatgcactga 60
aaagatacac ctatgggaag catatcgtgg cacgtgttga gaagcttatt gctgcaggag 120
aacggcgcat tggtgcccca tcctcttgct gagatggcaa taaagctata tacaggtcgc 180
agaataacac ctgtacagac agacagggat agcgaggcct agctttttac cattaccagt 240
agtcggtaat attgagcgac ggagagggtta aaaaaggctc ccaaatacctt tgatgtaa 300
aaaggatagc cgctggaaat aaataaaaag aatgagaaaa gatgaagaga ttttgcttgt 360
ccttgaggga agagttgtat atttgtgtgg tttattttcc cctcttgaag cagatggata 420
aatgtttt 428

<210> 11543

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-F4

<400> 11543

cccacgcgtc cggggtacgg tccacttcgc tcgcaacctt cccagccat ggcgaccgcg 60
acgcggaggc tgctccccgc gtcctcagg accctagctc cagccggcgc gcgcggcctc 120
tccaccgaga aggctgttgg cgcagccgcc gtcgtcggca gccacaccgc taagtggatg 180
caggacacga gcaagaagtc gccaatggaa ctgatcaacg aggtacctcc aatcaaggtt 240
gatggtcgca ttgccgtctg tgaaggggct tctgaagggtg ttggacttgg ccaccaatc 300
gagtacatct gccttgatct ggaggcacct aatgtgtgca agtactgtgg tctccgttat 360
gttcaagttc accatcacta aattgagaag ataatgctgt ctaccgctgc agaagctgag 420
ttgaggagtt tatgtg 436

<210> 11544

<211> 378

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-025-Q1-K1-D9

<400> 11544

ctacatggca actgtggcta atctgaaaga ccctgttgac aaatggagat gtgctgcggc 60
tcgtttaact gcgatgatga gtgtgaagag gcatttacgt ggccctggag caatccctat 120
agggaggcct tccattcacc cttctccaat tgacctgaaa gggaaggctt atgagttgct 180
gcgagagaag gcttcaagct tcctccttga cgacttctac aggactccag gaggcattca 240
gttcgaaggg cctggttcag atgcaaagcc catcacgctg accattgaga accaggacta 300
catgggtgac attgagatac tgaaagagta ccttggcaag gttaggacca tgggtgaagcc 360
agngtgctcc cgggagat 378

<210> 11545

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-E1

<400> 11545

aactctgctg cttatttgca acaacaacta ccattcagcc agctagctgc tgcctaccgc 60
cagcaatttc ttccattcaa ccaactagca gcattgaact ctgctgctta tttacagcag 120
caacaactac taccattcag ccagctagct gatgtgagcc ctgctgcctt cttgacacaa 180
caacagttgt tgccgttcta cctacacgct atgcctaacg ctggcaccct cttacaactg 240
caacaattgc tgccattcaa ccaacttgct ttgacaaacc cagcagtgtt ctaccaacaa 300
cccatcattg gtggtgccct cttttagatt gcttatgagt tatagttcaa taatgaagtt 360
ttttggatga tgtttgtggc ttcccagaaa taagaaagta catttct 407

<210> 11546

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-E12

<400> 11546

cccacgcgtc cgcgagcgcg tgggtccaga tcagcaaagc ggcagtgcgt agagaggatc 60
ggggaacaga acagcatgaa gatggtcacg gttctcgctg tgtgcctggc tctgtcagct 120

gccagcgccct ctgcaatgca gatgccctgc ccctgcgcgg ggctgcaggg cttgtacggc 180
gctggcgccg gcctgacgac gatgatgggc gccggcgggc tgtacccta cgcgagtagc 240
ctgaggcagc cgcagtgcag cccgctggcg gcggcgccct actacgccgg gtgtgggcag 300
acgagcgcca tgtaccagcc gctccggcaa cagtgtctgc agcagcagat gaggatgatg 360
gacgtgcagt ccgtcgcgca gcagctgcag atgatgatgc agcttgagcg t 411

<210> 11547

<211> 191

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-E2

<400> 11547

cctcccactc gtctctccac gcgtccgccc tttctttcaa ccacacttac tattacttat 60
cgacagtttc ataaacaagt tcgtctacta acacctatac actctcttaa ttatatacac 120
ctaataacat ctactaccat tcattcatat taatttatat gatataat ttt tacttataat 180
aacaacaaca t 191

<210> 11548

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-E3

<400> 11548

gcgaaaataa ctacagaaag gacaccccca gtatccatag gtgatgctaa gacagtcagg 60
gtgcatacac ttcttgaggc tacttgtgga gttaacttgc agtgcattgt tgaagcagag 120
aacattcaac aagagaaata caaagaaacc aatgggagat tgattgctga aaatactatt 180
tcagagcaga agtgtgaaga tagatctaata tccagtcgtt caaattcatg tgctactccg 240
gtgactgtgg atcaatgttc tcatttatct aatgagattg ggaaagggtga caactgttta 300
tctagtgaag tttctgttgg agctgctccc ataacaggca aaactgaatc tagtttgaca 360
tctgttcatt gcgctaacca agaggatgag aaagcttacg cagcccctgt ggacactaaa 420
ataccttttag tcatta 436

<210> 11549
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-E9

<400> 11549

cggacgcgtg ggcgagcgag agagagaggt ttgccacctt cgcaactgtg ccaatgggga 60
cctgctgcag catctccctg ccgtcgtcgc catggctcct cctgctggcg gtcctcatca 120
tcggcgacgc cgcggctgtg atggcgggtgc cccccaccag gccgctgctg cgcctcgccg 180
agccgccaac cgcgccgggc acggcagcgg ggcccgcggc cgcgtcgcgg cccggggggcg 240
gccgaggcgg gagggcgctt gaccggtcgg tggccggcgc cgaggatgat ctcgccgggt 300
tcgctgccgc ggtgatgatc atcgtcttct gctatatcag ggtcaccagg agaaacagcg 360
gcggcggcgg cggcgatatga gcgggagggga agcagc 396

<210> 11550
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-F10

<400> 11550

ccagcagggt gtcccggccc tctctagttt ctaccccggc cccaacatt ggcctggggc 60
tggtgccatg tagcccagcg ctccccctc ggcttcaccg gcggcggcgg caacgacggt 120
gaaaactaca tcgggtgcta gctccgacgg tggtgcgtgc cctgttgacg atagggcacg 180
cggggcgcgg gcagcttgta agcgttcgat cggccatgta gggcaactat acatctttgg 240
caggtctcca actctccatc atcctccgtg ggagagaaga tggtaatgga gtgcgtgtgt 300
atgtatgtgt atgccaagg cgcgcgcgcg cggctctggg cgagtcacag tagagatgca 360
atatcatgta tccagtatct ttcttacaac acaaacagtg agaaattatt tagagaaaaa 420

<210> 11551
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-F11

<400> 11551

caatgacctg aaggaacaat acttttttct tttcatttca attgttcatt catctcagtg 60
ctgacactta cactgacaag cattgtcatg catcacacat tattttctcaa tgattgccgt 120
taaattactc atctattttg cctcccactg gttatattac tacacataca gatccctaca 180
ccaactgatc cagcaccctc caacattgcc agttctggag ctaatgctgc agaagctctg 240
gctctggctc tcgtgctcac actctctgtg gctcaacttt tatagccacg cactctcggg 300
gctgaaccgg atccttatga acccaagcga gtttatgcaa atctggtacc ctacgcttgt 360
taaccattc aactggttcc 380

<210> 11552

<211> 435

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-025-Q1-K1-F12

<400> 11552

gatcagcaaa ggggcagtgc gtagagagga tcgtcgaaca gaacagcatg aagatgggca 60
tcgttctcgt cgtgtgcttg gctctgtcag ctgccagcgc ctctgcaatg cagatgccct 120
gccctgcgc ggggctgcag ggcttgtagc gcgctggcgc cggcctgacg acgatgatgg 180
gcgccggcgg gctgtacccc tacgcggagt acctgaggca gccgcagtgc agcccgctgg 240
cggcggcgcc ctactacgcc ggggtgtggc agccgagcgc catgttccag ccgctccggc 300
aacagtgtg ccagcagcag atgaggatga tggacgtgca gtccgtcgcg cagcagctgc 360
agatgatgat gcagcttgag cgtgccgctg ccgncagcag cagcctgtac gagccaactc 420
tgatgcagca acagc 435

<210> 11553

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-F2

<400> 11553

gaagacacac atatgtacag atggaactac aatactctcc aagaggtaca gcttcatgga 60
tcagcattta ggaccttctt ggacatagct ggtgacaact taagtggcaa gattttcacc 120
gaggcatttg atgcggtctg cttccccctt acactcttct caagtttatt tgaacctgga 180
tggtcttctg ggagttcagc agtctccatt aagggccttt tatcatcgct ggtggaagga 240
ggcgctgaca atgtaaataca gtgttttctt gaagcagcgc gctttggaag tactgaactt 300
gtacgcattc tgctgaaggc cgcatatcag aatagcttgg ctgtggacac cgatctggct 360
ctagtgtatg cctctcatta ctgcaagttc aaaacaatgg aatgcctagt tgatgaaggg 420
aacgtgagtt cttt 434

<210> 11554
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-F3

<400> 11554

cccacgcgtc cgcccacgcg tccgcttttt gccctgtttt ctaatgtacc gtggttgtga 60
accggtcaat gtgatctgaa ataaaacatt gcgtgccaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aataaaaaaa aaaaaaaaaa aaaaaataa aaaaaattaa gatccaacat gttaaacaaa 240
actggaatct gacaaaatat tagtcttaaa ctctaaaaaa tatcaggcct atatccgcat 300
ttaaacaagt ggaatatattt aaaaaacgtc attaaagaac attaattaca acagcttgta 360
attccaaata gctaattgggt actttt 386

<210> 11555
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-C5

<400> 11555

gcaaattgca ccaagaaatc cattgagagg ccgccgacag ggaattaat ggcggcgggg 60
tctagcagca gccaccgccg cctcatactc gcagccgacg tctgtctctc cgtgctcgcg 120

gctgccagcg ccagcgccgg gacctcctgc atgccctggt gggccatccc gcacaacccg 180
ctcacgagct gccgctggta catgaccagc cagacctgca gcataggacc ggcctcccg 240
aggccgcagc tgaacaggag atgctgccga tagctggcgg acatcacggc gtactgccgg 300
tgcacggcgc tgagcatcct catggacagc acggacccat c 341

<210> 11556
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-C6

<400> 11556

cggaacgctg ggtagcaaca tagaaagcac aatagtgtac caacaatggc agccggaaga 60
ttttgcttcc ttatgctcct tggcttttct gcaagtgtg ctaccgcaac cattttccca 120
caatgctcac aagctcctat agcttccttt ctcccccat acctctcacc agcgggtgtct 180
tcagtatgtg aaaaccaat tcttcaacct tacaggatcc aacaggcaat cgcagcaggc 240
atcttacctt tatcaccctt gttcctcaa caacgctcag ccctattaca gcagttacct 300
ttggtgcatt tgttggcaca aaacatcaag gcacaacaac tacaacaact tgtgctagga 360
aaccttgctg cctactctca gcaacagcag tttcttccat tcaaccaact ggctgcattg 420
aactctgctg cttatt 436

<210> 11557
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-C8

<400> 11557

caccgtcgtc acctacttta tctcactact caattgaaac ggcgccataa gtatgtagag 60
ccttgctctc tgactcctgg acgtctactc aaacagccaa gcacgctccc agacctaccg 120
atcattacac tacctcatat tccacttcca ctattcccca aaagcaacga tcatcaataa 180
ccataaccaa tgaataagct gacacatga taatcctcag ccatcacata gactatcgta 240
ctgaacattc tgagacctga tgcacc 266

<210> 11558
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-C9

<400> 11558

cccacgcgtc cgcggaacgcg tgggactggt cgtaaacttt caagatttgg gcttttgagg 60
agttgagagt gaccaatggt tttggtggtg ttgttctcag ccctgttgga acacagtgtg 120
tatccaagga agatcatcct attgtgcaaa gaaaaggatt ggctgtgggt gattgttcct 180
gggcacgttt aagtgatgtc ccctttgtga aactatgttg cgggtgtcct cgtctcttac 240
catggttggt agcagcaaatt cctgtgaact atggccgccc atgtgaactg tcatgtgtgg 300
aagctttatc agcagccctc ataatatgtg gggaggaaga tacagcacat ttgctgcttg 360
ggaaatttaa atgggggtcac gcattcttgt ctctaaacag agatctcctg aaagcatact 420
tccaatgt 428

<210> 11559
<211> 434
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-025-Q1-K1-D2

<400> 11559

ccactggaac tgctcgtcga agcgcaagct cgccgcccgcg tccgccccgg cgggttcagg 60
cgacgtcgag gcgcgcccga ccaagcgctg cagcctctcg cccgacagcc cgtcggggtc 120
ggggtcgggg tcagggtcag ggtccgggtc cgggtccggg tccgaccgta gcgacctgag 180
ccacggcgcc ggccaggttt accgcccagt ggcgcggtcc ggcggggttc agccggcgga 240
ctgcgcgatg agccgtccgc tggaggaaga ggaggaggaa aaggaggacc cgctcacctc 300
cctcagcctc tcgcttccag gcacggacca gcggttccac cagcaccgcy cccacagcca 360
gttccaggag ctcccggcgt cngccgctc gcccttccc cctccgccc cggttctctc 420
ggcgtacccg ttca 434

<210> 11560
 <211> 278
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-025-Q1-K1-D3

 <400> 11560

 gccgggctgc ccgcgggagg tgcagagggg attcgccgcc accctcgtca cggaggccga 60
 gtgcaacctg gccaccatca gcggcgtcgc cgaatgcccc tggattctcg gcggcggaac 120
 gatgccctcc aagtaactgc gaagagcata gtgcatgagg aatgagcttg tagctagctc 180
 atatgtctga ataataagca cagcacgaag atgaatgcat ttctcggatc gttcatccgg 240
 aacaataatt aaaggggatc cggatttggt cttgtgat 278

<210> 11561
 <211> 385
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-025-Q1-K1-D4

 <400> 11561

 aaaaaaaaaa aaaaaaaaaa aaaaaaaatt taattaaaaa aataaaaaaaaa aaaaaaaaaa 60
 agaaatgtat aaaaaaaaga gtaaaaaaaaa atataaataa acacataata actatcttat 120
 aaaataaaat aaatataaat aaactgtact caattttaca atttcatctc ttgtaaaacc 180
 ttgtctttac tcaattttat taccttttag atcatccttt ttcatcata tggcgtat 240
 ttcaagaagt gtaatcctat acaattttcc aaaattttta ttaccttaac ggaccattca 300
 acattccact tttgctacat attaatcctg ctagcttatt ctgcttatcc acagattaat 360
 ccttatactt gcaatttcca ttata 385

<210> 11562
 <211> 386
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-025-Q1-K1-D5

 <400> 11562

cgttcctcct gctcgccggc gtgctgctgg tcgtagcagc cacggccggn gcggaggagg 60
gagtggtcga acgggaccgc aaggaggacc tgcggtggtg caagcaggcg tgcgagtggc 120
agtacggaaa ggacaccccg cggaagaggg aatgcgagag cgagtgccgc gagcggcacc 180
agcaagctga cgcgggagag gacggcgaca gcggcgtgga cgcctacgtc tcccgtccg 240
ggaggggcca gtgccggcg cagtgcctgc gccgtcacga gggccagccg tgggagaccc 300
aggagtgcac gaagcgggtg cgtcgtcgtg gactggccgt cgacatggag caagagtacg 360
gtcgcggcag cgagagcgcg ggcaag 386

<210> 11563
<211> 426
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-025-Q1-K1-D7

<400> 11563

atcctggcgc ggttcgggcc catcgcgccc aagcccacac cggcggcgac aggggagggg 60
agggacgtcc ccgtggagcg cgacctgctg cggaagctgc tggagcccag ggtcatatcg 120
ccccggggcg tgcgccccgt gtggtctgcc atccacgtcg ggtgcatcca ccgcaccgac 180
gacgcggcct gcaccgacgc cggcgtctcg aagacggcgg ttcaggtgga ggcggagctg 240
gaggtcgacg cgctcccggc ggtggtctcc gactccggca accgcgtncg gctcgtgaac 300
gacgcgtaca aggagatggt ggggcagccc gagtgcccggt ggctcgacgc cgtggctgcc 360
acgtcgagga ggatcagcgg ggaggtggcg ctggtggtag cggaccggtc ctctctgccg 420
gactcg 426

<210> 11564
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-C2

<400> 11564

cggacgcgtg ggtgcggcgt cggcagcgtc ggcagcccgt tcttgggcca gtgcgtcgag 60

ttcttgaggc accagtgcag cccggcgggc acgccctacg gctcgccaca gtgccaggcg 120
 ctgcagcagc agtgctgcca ccagatcagg cagggtggagc cgctgcaccg gtaccaggcg 180
 acatacgggtg tggctctgca gtccttctctg cagcagcagc cgcagggcga gctcgcgggc 240
 ctgatggcgg cccaggtagc gcagcagctg acggcgatgt gcggtctgca gctgcagcag 300
 ccaggtcctt gcccttgcaa cgcagctgcc ggcggtgtct actactgagg aaactatgta 360
 ctgtagtaat aatgtaatgg agccgctgac tagctaccta tagctagttc actcgtttag 420
 cggcgatgag taac 434

<210> 11565
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-A6

<400> 11565

gtgcaagaac gacacagccc tacaagaaac cttgccagg cccagcatcc agttcgtgct 60
 ggcggtcatg gcggcttctt cagcaatcca taccgagtt tctttggaga ggctacctca 120
 accgcgggac cattgcaact ctacatgcca aacatggtgg cgtcaggtgg cagcagatcg 180
 acgccctctc tcgccttctc tctgtctgcg cctggacagc ctattacgag cacagctctt 240
 ggcggtctct ttggctcaaa cactcgcaact gcattggggc attcagatat ggctgctgcg 300
 tcgtactctc agcctgaccg catgggcatg gatcaacaag caggaaccgg ttctgccatg 360
 aatctgacaa ttgggctgta tcccaatgcc cagcagccac caccaaaata tgtcaaaatc 420
 tgggaggggtg ac 432

<210> 11566
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-A9

<400> 11566

atatcaagga aaaagaagtt gctgaagtag caggctgaag gaaagaaaag gatgaaggga 60
 ataggaaggg ttgatgtccc tcaagaagca ttcattggccg tggtgagact ggaaaaggag 120

gtgctatgaa agtgctcatg aacctttgtg tctccgtaaa ttaaagacct cttcctgtgc 180
gccactcaca agtatagtca gacgagagct ttgagacaac aggcattcac tatgggtcaa 240
cctgtccgct ctggaccata ggaaccagtc aagcacagat cactcccaga acaaaagcag 300
gtaaactctgg cattcgttcg ctatTTTTTg cttttttatg ggtcaagcta tgatggtaaa 360
acaatcatg 369

<210> 11567
<211> 421
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-025-Q1-K1-B10
<400> 11567

gttttttaggg ccatgatctt ttgaagcagg agtgtgatcg atcaaaaggc acttccagca 60
cagctgattc tgggtgctcaa tcaggggcta taacgaacga ggaaaatacc ggggaagtag 120
cagtacccat ggtgagtacc tcacaggatg tatctgggtgc gaggagcctc attcctcctt 180
ttcaagatcc ccagcagaga acaggaagag attcttccat cgggtccact tcacaagaac 240
tgtgggggttc actaacgtca cacatgagat caagccaact tgggtccagta ctagcagtgg 300
cgctgggtggc tatcattgtc ctattgcagg taaccatcat agttctgcta actaggtccc 360
cccagggtcca gatgggtcct cacgggatct cgacgggcag tttcgggtac agcaaagaaa 420
g 421

<210> 11568
<211> 169
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-025-Q1-K1-B11
<400> 11568

caatcgctta tctccatctt tacaacaatc caactatata ttcaactctt ctactttcta 60
acatatatca tctccctaatt attataacta ctaaaaatca tcctcaatgc caacctattc 120
atccttatac tatacattat catctttatc acttctatca taacatcta 169

<210> 11569

<211> 369
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-025-Q1-K1-B12

 <400> 11569

 cgtacgcagt ttagggccat gatcttttga agtttgattg tgatcgatca aaatgcactt 60
 ccggcacggc tcattctaata gctcaatcaa gggctataac gaacgattaa aataccggag 120
 aagtagcagt acccatgggtg agtacctcac aggatgtatc tgatgcaaag agcctcattc 180
 ctcccttttca agatcccca catagaacat gaagagattc ttacatcggg ttcacttcac 240
 aagaactgtg gggttcacta acgtcacaca tgatatcaag ccaacttaat ccagtactag 300
 cagtgcgcgt agtggctatc attgtcctat tgcaggtaac catcatagtt ctgctaacta 360

ggtcctccc 369

<210> 11570
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-025-Q1-K1-B2

 <400> 11570

 ccctacttga ggctctggac ttgatcaatg agccaaagag gccttcagac aagcccctgc 60
 gtctccccct tcaggatgtg tacaagattg gtggtattgg aactgtccct gttggacgtg 120
 ttgagactgg tgtcattaag cctgggtatgg ttgttacttt tgggcctact ggtcttacta 180
 ctgagggttaa gtccgttgag atgcaccatg aggctctcca ggaggccctt cccggtgaca 240
 atgttggtt caacgtgaag aatgttgctg tgaaggatct gaagcgtggg tatgtggcct 300
 ccaactccaa ggatgaccct gccaaaggagg ctgctagctt tacctcccag gtcacatca 360
 tgaaccaccc tggccagatt ggcaatggct atgccccagt tctggactgc cacacctcac 420
 acattgctgt caag 434

<210> 11571
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-B3

<400> 11571

cccacgcgtc cgtcattaca tacacatata tatggggcct cagcaagacg ggcggtcgtc 60
cggggcgaac ggcggcacgg cggcgaggcg caaggaggcc gccgcgaagc cggtggtgcg 120
gtaccgcgag tgccagcgca accacgcggc gtccgtctgc gggcacgccg tggacgggtg 180
ccgcgagttc atggcggtcca gcgcggaggg cacggcggcg gcgctcacgt gcgccgcctg 240
cgggtgccac cgcagcttac acaggcgcta ggttgcgacg gcgacggaga cggtcgccga 300
ctgccgtgac cgcgcctaca ccacctgcgg gtgaactcga cgaagagtcg tgatgtgcat 360
tggtggaatg gttgtttaca gtggttggtc ttggatgatt tttgagtga tttttattgc 420
gtgtgctata t 431

<210> 11572

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-B5

<400> 11572

gcagtcgcag cccacaggat caggtgatga gcccaccacc taacgataac ggcgaccgga 60
atgattcaca ccgcggcgac agcccccaag ggaggcaaga cagcaccagc cgtaccctaa 120
ccccattccc aggtaaccga cgcctgcac ctaatgggcc tcgccctagc cccatacgtg 180
accgtcatcc cagccacatc gctgaccaca gcccagccc taacgtccat ggtctcaacg 240
atcgctcctga tgatgatcct gcccgagggt gctaccgcac aggaacaag tgaccattaa 300
cgctacaccg cctcaactat caagtgttta actatgcaa gagcaaaca acccattact 360
tgatagctgg atcactgccc tatctgatac atgaacttat atagcttgc 409

<210> 11573

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-B7

<400> 11573

CGCGGTCGTC

ctcgttacca agattgatag gcgatccggc aaggagctgg agaaggagcc caaattttgtg 60
aagaacggtg atgctggtat ggtgaagatg gttcccacta agcccatggt ggtggagacc 120
ttttctcagt atcctcctct tggtcgattt gctgtccgtg acatgaggca aacggtggct 180
gtcggagtca tcaagagtgt ggagaagaag gacccaactg gagccaaggt gacgaaggct 240
gctgccaaaga agaaatgata tatctggctg gtgacgaagg ctgctgccaa gaagaaatga 300
tctatctggc tggtgctgtg cttgcttgtt ggttacctcg tggaagctta aaatatctcg 360
tcttggtgac atccttgacg ttgtcgcgtg aacaagtaat ctatgatggc aatgtttgcc 420
tggtcatga 429

<210> 11574

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-B8

<400> 11574

gcactacggc atccgcatcg agttcatgtt cccggacgcg agcgaggtgc aggaggttgg 60
gcgcaccaag ggcctggtct gcttctacga ggacggccac caggagtgtc gccgggtgcg 120
caagggtgcg cccctgcgca gggcgctcaa ggggcttagg gcatggatca ccggccagag 180
gaaagaccag tcccccgga ccagggccag catccccatt gtccaagttg atccttcctt 240
cgaaggcctg aatggcggag ccggtagctt ggtcaagtgg aaccccgctg ccaacgtcga 300
cggcaaggac atctggactt tctgcggaac catggacgta cctgtcaaca ccctgcatgc 360
tcagggtac gtgtccatcg ggtgcgagcc gtgcaccagg cccgtccttg ccgggcaaca 420
cgagcg 426

<210> 11575

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-B9

<400> 11575

gtggaatcca gtagcaacaa cagagcaaca atggcgacca agatattttc cctccttggg 60

ctccttgctc tttctgcatg tgttgctaac gcgacaattt tccctcaatg ctcacaagct 120
cctatagctt ccccttcttcc cccatacctt ccatcaatga tagcttcagt atgtgaaaac 180
ccagctcttc agccctatag gctccaacaa gcaatcgag caagcaacat acctttatca 240
cccttgttgt ttcaacaatc gccagcccta tctttggtgc agtcattggt acaaaccatc 300
agggcacagc agctgcagca actcgtgcta cctgtgatca accaagtagc tctggcaaac 360
ctttctccct actctcagca acaacaattt cttccattca accaactgtc tacactgaac 420
cctgctgctt 430

<210> 11576
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-C1

<400> 11576

cccattcttc ccgctccccc tctccctctc gtggccacga ctgccgccgc tgccgggctg 60
gccagggtgc caggctcatc cgggccatt cgccggcgac gagcaccca ctagatcgac 120
cgagctatgg acggcctgtg gcatctgggg gacgagctcc gcgggcagcc caagggtggtg 180
gaggaccgcc agtggtcgct catgacatcc aagctggcag agatcaccag gtccaggggc 240
gagaggacga acgacctga ctacgccagg atgaacgccg gccccgacgc caagcagtgg 300
ggcaaggcgg cgtcctacca gcaccacgac gagggcacga tggaccacca cgtcgggtctc 360
agcctgaaga cgaacgatct caagatgaac g 391

<210> 11577
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-C10

<400> 11577

attttgagca ttcagaaaca caccaagcga agcacattag caacaaccta acaacaaggg 60
ctgccaagat attatccctc cttgcgcttc ttgcgctttt tgcgagcgca acaaatgcgt 120
tcattattcc acaatgctca cttgctccaa gttccattat tacacagttc ctcccaccag 180

ttactttcaat gggcttcgaa caccagctg tgcaagccta taggctacaa caagcaattg 240
 cggctagcgt cttacaacaa ccaatttccc agttgcaaca acaatccttg gcacatctaa 300
 caatacaaac catcgcaacg caacagcaac aacaattcct accagcactg agccacctag 360
 ccatggtgaa ccctgccgcc tacttgcaac agcagttgct tgcacaaac cc 412

<210> 11578
 <211> 318
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-025-Q1-K1-A5

<400> 11578

gacagcaagc ggatgctga ggacgcgaca aactgaaga tggcatgtct gcggtgctg 60
 gctctgact gcacgcttga atgcaacctg cccctgccgg gctgaggctg acggctgccc 120
 gctgacacat atgcccgcg tgtccctccg agcctgagag cgatgacctg tgcgcgcccc 180
 tataccggtg ggcaccaccc agtcaacgtt cgcacagtgc tgcagcagcg atgaggatga 240
 tggacgtgca gtccgtggcg caccagctgc agatgatgat gcagcttgag cgtgccgctg 300
 ccgncagcag cagcctgt 318

<210> 11579
 <211> 427
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-024-Q1-K1-H1

<400> 11579

ccgagtcctat cagctacctg gctcaggtgt tggcaaaatc ttctaagatg attcctgtaa 60
 tgttgatggg aactcttctc tatggtgtga agtacacact tccagagtat ttatgcacct 120
 ttcttggtgc cggcgggtgtg tcctcctttg cgttgttgaa gacaagctcc aagacaatta 180
 agaagcttgc caaccctaata gcacctcttg gttacacatt gtgcttcctc aacttagctt 240
 ttgatggata tactaactcg acccaagatt taataaagtc aaggtaccca aaaacaaacc 300
 catgggatat aatgcttggc atgaacctct gggggaccat atataatgct gtaattatgt 360

ttgttgccgcc attactattc agtaactggc catatgcana tggttttgag gcattgagat 420
 tttgccca 427

<210> 11580
 <211> 407
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-024-Q1-K1-H10

<400> 11580

gccctacatg cttagcaaaa attttgggga tctatcaggt tactagtaag catgtaaagg 60
 gtggcaagga gtcaaagatg gatttgcttg tgatggaaaa tcttttggtt ggacggaata 120
 ttaccaggct ctatgatcta aagggatctt caagggtcaag gtataatgca gattcaaagt 180
 gtagcaacaa ggttcttctt gaccagaact taattgaagc aatgccaaact tcaccgattt 240
 ttgttgggaa caaggcaaag cggctactgg aaagagctgt ttggaacgat acatctttcc 300
 tagctggaat cgatgtgatg gactattcct tgcttggtggg agtcgacgag gagaaacatg 360
 aactggtctt aggaattatt gattntatga ggcagtatac atggggac 407

<210> 11581
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-H2

<400> 11581

ccgacgcgtc cgattttgag cattcataaa cacacctagc gaagcgact agcaacgacc 60
 taacaacaat ggcttccaag acattatccc tcttgcgct tcttgccctt tttgtgagtg 120
 caacaaatgc gttcattatt ccacaatgct cacttgctcc gagtgccatt attccacagt 180
 tcttccctcc agttacttca atgggcttgc aacaccagc tgtgcaagcc tataggctac 240
 aacaagcgct tgcggcgagc gtcttagaac aaccaattgc ccaattacaa caacaatcct 300
 tggcacatct aaccatacaa accatcgcaa cgcagcagca acaagcactg agccacctag 360
 ccgtggtgaa ccctatcgcc tacttgcaac aacagctgct tgcattccaac ccatttgctt 420
 tggcaaacg 429

<210> 11582
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-H3

<400> 11582

gctcttcagc cctataggct ccaacatgca atcgagcat gcaacatacc tttatcaccc 60
ttgttggttc aacaatcgcc agccctatct ttggtgcagt cattggtaca aaccatcagg 120
gcacagcagc tgcagcaact cgtgctacct gtgatcaacc aagtagctct ggcaaactt 180
tctccctact ctcagcaaca acaatttctt ccattcaacc aactgtctac actgaaccct 240
gctgcttatt tgcagcaaca actattacca ttcagccagc tagctactgc ctactctcag 300
caacaacaac ttcttccatt taaccaattg gccgcactga accccgctgc ttatttgag 360
cagcaaatac tactaccatt tagccagcta gctgcagcaa accgtgcttc cttcttgaca 420
cagca 425

<210> 11583
<211> 421
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-024-Q1-K1-H6

<400> 11583

cccacgcgtc cgcccacgcg tccgcggacg cgtgggcggc gcggccgtgg agaagacat 60
cctgaagcgc ctcccgccca cgcatctggc gtctctggc agccctctcc ctctccctcc 120
ccgcgccagt gccggtgcct cgcccgggcc gctcgtgctc tacgacgact acgaggcgcg 180
gctgcgggag ctgcagcggc agcgcgactg gtacttgatg agcaccgcgg gtgcgggtcc 240
gggtctggac cccgcctact tgcacttgct ggtggcggcg gggcatccgg ataacgagga 300
cccacagcag tgggtccccga ggcgacgacc gtccccgtgc cccgagtgcg aggcggcggc 360
ggcggccatg cggcagccgg cgttccactg gtgcgtgcgc gnacgcgtgg tctccgcggg 420
a 421

<210> 11584
 <211> 424
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-024-Q1-K1-H8

<400> 11584

```
ctttggagtc agagagcacg gaatgggagc catttgcaac ggcattgctc tgcacagccc 60
agggtttgtt ccgtactgtg ctacattctt tgtcttcact gattacatga gaggtgccat 120
gaggatctcg gccctgtctg aagccggagt catctatgtc atgaccacag actctattgg 180
tctcggagaa gatggcccga cccatcagcc catcgagcac ctggtgagct tccgtgcat 240
gccgaacata ctgatgctcc gccctgctga tggcaacgag actgccggag catacaaagt 300
cgcggtcgtc aacaggaaga ggccgtccat cctcgctctc tccaggcaaa agctccctca 360
cctgcctggc acctcgatcg agggcgtgga gaagggcggg tacaccatct ncgacaactc 420
gact 424
```

<210> 11585
 <211> 293
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-A1

<400> 11585

```
agagaagatc cttcacgagc aagagcagct tcgggagatt gaactcagca agcaacagga 60
tgccagcgac ttgcaagaga aaaatagact ttcacgggtg ttggaacaca agaatgcttt 120
acaggagaga atcatccaag aacgtgcagc tgaatttggc cgtctgaaga aagagagaga 180
tgaacggatg aatcggttga tatcttcaag aaagcattaa agggagacag taaggaagtt 240
gatggtttat ctgaacctgg aggaacagcg gattgaaatg cttcgtgagg gaa 293
```

<210> 11586
 <211> 394
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-A10

<400> 11586

atgtcttctt tctactttct tgtaacctaa gacgaactcg gtgaactctt tctcctggcg 60

cagcaccgga gcacaatcaa ggattccagt ccagtcctgc caatggagtg cgttttgggc 120

ttggttggcc gcgacttcgc ggtggtggcg gtcgacacct tcgccgtgca gagtatcctc 180

gtacacaaga ctgacgagga caaagtaatg gtcctcgact cgcacaagct gttggggcgt 240

tcaggggagc ctggtgaccg ggtgcagttt acggagttca tacagaagaa cctccacctg 300

taccagttcc gcaacaccat cccgctgtca accgccgctg ccgacaactt cacacgcggc 360

gagctcgcca cagcccttcg taagaatcca taca 394

<210> 11587

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-A11

<400> 11587

ctgcctcttc tcctctcttc taggctctag tcctctcgca tccgcagctt cccagggggg 60

ctagggtttg cagatgacga cagcggcgcg cccacactgg gcgccggcca agggcgga 120

cgagcagggg ggcacccgca tcttcggccc ctcccagaag ttctcctccc gcgacctcgc 180

cgcgcacacc tcctcaagc caagaaaaga cggtaacag acccaagagg agttacagaa 240

gaggaatctc agggaggaac ttgaggaacg tgagcgcaag cactactctt ccaaggataa 300

gtcctatgcc gaagaaagag accggcggaa aagctctagc catctactct tagaaggttc 360

aaagagagaa gcagaggata agatagttcc acgaggaatc gatgctgatg ac 412

<210> 11588

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-A12

<400> 11588

caactagcaa catagaaagc acaatagtgt accaacaatg gcagccaaaa tattttgcgc 60

tccttatgct ccttggctct tctgcaagtg ctgctacggc gaccattttc ccgcaatgct 120

cgcaagctcc tatagcttcc cttcttcccc cgtacctctc accagcgggtg tcttcggtat 180
 gtgaaaaccc aattcttcaa ccctacagga tccaacaggc aatcacagct ggcattctac 240
 ctttatcacc cttgttcctc caacaatcat cagccctatt acatcagtta cctttggtgc 300
 atttattggc acaaaacatc agggcacaac aactacaaca acttgtgcta gcaaaccttg 360
 ctgcctactc tcagcaacag cagtttcttc cattcaacca actagctgca ttgaactctg 420
 cttcttattt gcaaca 436

<210> 11589
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-A2

<400> 11589
 cggactcgtg gtcggacgcg tgggaaataa aaataagaaa aaaaaataaa aaacaaaaaag 60
 ggtagataaa aaaaaccagt atatcacaaa aaacacaaaa tttaaagacc taaaagagat 120
 atgatgatga aagaacacct tacaagcggc cacaaatgaa aaaaccttca tcgaataact 180
 ctggaatgga atccaaacat gatgatcttg atgctgactt ttcacaaccc acgtctgggc 240
 aaagtagttc aaggcagcac gcttctaagc cggaagcctc acctttggac tttgtcattc 300
 gtcacagtc caaaattgac cctgagcaga tacgggctcg tgctaagcaa gctgtccaag 360
 accagcgtcc gctgaagatg aacaagaaat tgcaacaact gaaagcgccc aagaagaaaa 420
 acc 423

<210> 11590
 <211> 289
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-A3

<400> 11590
 aatatttcgc acgacaaaaa aaaaaaataa attaaaaaaa aaaaaaaaaa aaaaaaaaaaag 60
 aaaggaaaaa aaaaaaaaaa gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaataaaca taaaaaaaga aaatgaatgg 180

taaaactaaa aaacaaaatt tacatatata aattttaata atatacctaaa atttaaaaca 240
 tggacaaaaa attaaaaaat catgaacgtg taaaattaac tagaatatt 289

<210> 11591
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-A4

<400> 11591

agaagatctc agcgacaaaa caatgaagat cactttatgg gcagattagg cgataatgg 60
 caagcttcat gacgtgtacg atgcaaatac aaataaacg attcttgtgc tattcgtcgg 120
 gtgcttacca aaatttttca aagggtgtcta cctaagtggt ggtcctgcct gtagatggta 180
 cttcaatcca acaattccag aggcagaacc ttatcttacc agccagtcta caaaaagaat 240
 tgtgttacag cttcccaaaa atttacaaca tcctccagcg atggaaacga agccaattgt 300
 cgaacataaa tccctctatg aacttcttac agttaacca tatgatttcc cggaacagg 360
 atttgaatgt actatcacia tagcagaaat accagctgaa caaaaatggg ggtttccatc 420
 ttgcacaaaa tgcaataaa 439

<210> 11592
 <211> 412
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-G9

<400> 11592

acgctgcagg ggacctgccg cgtatgcagc acccttttcc tgggccagtg cgtcaagttt 60
 gtgaggcatc agtgcagccc gacggcgacg ccctactgct cgcctcagtg ccagtcgttg 120
 cggcagcatt gttgccagca gctcacgcaa gtggagccgc atcaccgta ccaggcgatc 180
 ttcggcttga tcttacagtc catcctgcag cagcagccgc aaagcggta tgtcacggtg 240
 ctgttgacag cgcagatagc gcagcaactg acggcgatgt gcggcctgca tcagccgact 300
 ccatgcccac acgctgctgc cggcggtgtc tcccactgaa gaaactatgt gctgtactat 360
 agccgctggc tagctagcta gtcgagtcac ttagcggcga tgattgagta at 412

<210> 11593
 <211> 412
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-024-Q1-K1-F3

<400> 11593

```

ggatgcccc catggaagga ggcctcatta agccttggcc ggcaccagtt ttccaggccc 60
tgcaacaatc ctatcctatc tggcaaaagt tgggtttgca ctagctgtaa aaatttccat 120
ctatgtgaca agtgtcatgc agaggagcag aatacagcac agaaggacag gcattcggcc 180
accacaaaac agaagcatgc attcgaaaga atggaggtac aacctcttcc agagactgat 240
gatggagatc cgacaaatga aaagtagtat ttgacagca ngatcgattt cttgaagcac 300
tgccaagaca tcaatttcca gtttgatacc attccggcgg ccaaagcact ctacaatgat 360
gattctgtat tacctacaca attcaacctg ctctgcttgc catcgtgccg tg 412
  
```

<210> 11594
 <211> 402
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-024-Q1-K1-F4

<400> 11594

```

aagaaaagaa gaaggaggaa gattggttct gatttaaadc ttggtagaac tgaccatata 60
acatgtctat gaatcaatca atttgttttg caggcgtaca tggtcggcga gcacggcgac 120
agctcgggtg cggtgtggtc gagcgtgagc gtggcgggga tgccggtgct caagtcgctg 180
caggagagcc accgctgctt cgacgaggag gcgctggagg gcatccgccg cgccgtcgtc 240
gacagcgctt acgaggtcat cagcctcaag ggctacacct cctggggccat cggctactcc 300
gtcgccagcc tcgcccgtc gctgctccgg gaccagcgcc gcatccaacc ggtctccgtn 360
ctcgccaggg ggttccacgg catccccgac gggaacgacg tc 402
  
```

<210> 11595
 <211> 417

<212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-024-Q1-K1-F5

<400> 11595

gagccatgct tcttcaagac gtacttttct tgggataaca caaaatcttt ggttcatgga 60
 aattccttcc agaagaaact ctcgctgctt tttggattgc gttctgaggg tgcacctagg 120
 agctctggta atggtgggccc aactcagagg gcatctgcat tagcagctct atcatccgca 180
 ttcaatccat catctcaaca aaggctgtctaatgagaggc ctaaaagcac aggcgatgga 240
 cccacgcaac gtgcctcagc actggctgcc ttatctaata cattcaaccc atccttaana 300
 cccaaaacat caccttcata tcgctcaggt cgaggttctc aaagagcagc tgctgtagct 360

gctctatcct ctgtgctgac tgctgagcaa tctggatctt cagaatttct acgatcc 417

<210> 11596
 <211> 365
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-F7

<400> 11596

caccgggtgt cggatgaactc ggcgagggag aggttctcca tgcctactt cttcaaccg 60
 gcgacctaca ccatggtgga gccggtggag gagctggtga gcaaggacga tccgcccagg 120
 tacgacgctt acaactgggg cgacttcttc agcaccagga agaacagcaa cttcaagaag 180
 ctcaacgtgg agaacattca gatcgcgcat ttcaagaaga gcctcgctct cgcctaacta 240
 ctgctactgc taggatccat gccattgcca tgtcgtcttc agattcagag cagccatgt 300
 cgtcgctagc ttcgtggtag aacaaataat gatgtgcgtg ctgtgtgtaa gcatggatat 360
 ggatg 365

<210> 11597
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-F8

<400> 11597

accaggtgat ctcaagtaat taacagaaaa tatattccat cattgaaaat gagttccggt 60
gttttgggtg ctactggtag ggagaataag acatcatggc ctgaggtggt gggcatgtcc 120
atcaaggagg caagagagat cattcttaaa gacatgccca acgctaacat tcaagttcta 180
ccggttggct cgcttgtgac ccaagacttt cgccctgac gtgttcgcat cttcgttgat 240
attgttgcct agactccaac agttggctga caaggatatg ccttatctat aggccaaata 300
aacaaagcct acttttatgt atcatggcta ataaatccta catttcttgg ttaaaaaaaaa 360
agaaaaaaaa ataaaaataaa aaaagaaaaa aaaaatataa aaaaaataaa aata 414

<210> 11598

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-F9

<400> 11598

gtagcaacaa tagagcaaca atggcgacca agatattttc cctccttatg ctccttgctc 60
tttctacatg tggtgctaac gcgacaattt tccctcaatg ctcacaagct cctatagctt 120
cccttcttcc ccatacctt ccatcaatta tagcttcaat atgtgaaaac ccagctcttc 180
aaccatatag gtttcaacaa gcaatcgag caagcaacat acctttatcg cccttgttgt 240
ttcaacaatc gccagcccta tctttggtgc agtcattggt acaaaccatc agggcacaac 300
agctgcagca actcgtgcta cctctgatca accaagtagc tctggcaaac ctttctcct 360
actctcagca acaacaattt cttccattca accaactgtc tacactgaac cct 413

<210> 11599

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-G1

<400> 11599

agcacgcctt ccgggccgcc aggtcttttg gcccgacct gaaaaggatg gcgttggtcg 60
gtctagcgtc cacacgttaa gaccctgaaa agagacctac gatgcttcaa gtcgtgccgt 120

tgctgaaagg ccagtctaaa gaaacgctcg ttaagcttga caggcaggag ttgtttgttca 180
 gccagactc gacgacggtg agttcgcagg gaacaccgac cctagatggg agcacggact 240
 ctgcgccgtc ctagatagat caagaactga ttggggcggtg agttgcgata tatagctgct 300
 ctaggcgatt gtctagggcg tatccgtggt attgatgatt ggtctgcgcg gattgacgtg 360
 aatgcgaatt gtataggcat tgactggcca tctacgtatg gtttctgtcg catttgaggg 420
 agta 424

<210> 11600

<211> 406

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-024-Q1-K1-G10

<400> 11600

ctcgaagctt gcgttcttgt agtagaggtc ggcagcaagc ggtggttagag cgagaggtcg 60
 agaagatgaa gagcagcact ctgttggcga tcttagttct ccaggccctt ctggtctctg 120
 cggccgtggc caaaggacct gcagggccga cgacgaagaa gcagtgctgg tgcggcgagt 180
 gcaccagctg gtcggggtg tggacctgcg acgacctcct caccaagtgc gccgccacct 240
 gcaagaactg cgtccccgtg tccacggaca agggggccat caagtacagg tgccgcgact 300
 tcctccccga aaactgcggc tgcaagatcc actagagact catccaattc caccatggcc 360
 gngcgccaca gcggcacagc cgatggatcc ttccatgttc ctccgt 406

<210> 11601

<211> 408

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-024-Q1-K1-G12

<400> 11601

cggacgcgtg ggggaaactg cagtgaagtc gccggcgccg ccgcgacagg aggaaggagc 60
 agcagcggca gcggaggccc ggcgatctcg tctgctgcgt gcggcgaggg agtaaccgga 120
 gccgcgacag gatgcactcc ttggggcacc gcgccaacgc ggtggcaacg ttcgcggtca 180

ccatactggc cgcgatttgc ttgcgcgcct ccttctccga caacttcaac accccgacac 240
 ccactgcctc cgtaagatc ttgaatctaa actgggtcca gaaggaggcc aacggcaacg 300
 acgaggttag catgacgctg aacatttcgg cgcaccttcc gtctcttttc acgtggaaca 360
 canaacaggt gtttgttttt gtggcagcag agtatgagac tccacaga 408

<210> 11602
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-G2

<400> 11602

cagcatagaa agcacattag tggtagctcc attggccggc taaaatattt ggctctctga 60
 tgctccttgg tctttctgca agtgctgcta cggcgaccat tttcccacaa tgctcacaag 120
 ctcttatagc ttcccttctt ccccgtagc tctcaccaac ggtgtcttcg gtatgtgaaa 180
 acccaattct tcaaccctac aggatccaac aggcaatcgc agctggcatc ttacctttat 240
 cacccttggt cctccaacaa tcatcagccc tattacagca gttacctttg gtgcatttat 300
 tggcacaaaa catcaaggca caacaactac aacaacttgt gctagcaaac cttgctgcct 360
 actctcagca acagcaagtt cttccattca accaactagc tgcattgaac tctgcttctt 420
 atttgcaac 429

<210> 11603
 <211> 173
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-G3

<400> 11603

acccactcgt ccgcgcgactc ttcttaccgc acaaattctt tgtacctcac ctgaaaaata 60
 ttgccttggg gagtctatcg tacacacatt tataacctca aaacacaccc actatacttt 120
 aaatccaccc gtttcttaaa cgccagtcta aacaaactct cgtaaatctt gaa 173

<210> 11604
 <211> 420
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-024-Q1-K1-G4

<400> 11604

cccacgcgtc cggaggaagg cggaatttgc aggctcttt gcaaagttaa ccagaaagtg 60
gcccctgata ggacctctgc tcttctttct gggcatgaag aactccatcc cgaagcggca 120
gggcggcagg aagaaggccc ccaaggcgaa gacgaactan ggctgcttag atagctgcac 180
gcctcaggtg gngtgtatca ggagacaggt ctatttcgaa gcaggctcag cgcatgacag 240
cgaatgccat cgagctgcgc ttttacatgt ttatcatcag attccatttt gcggcccgaa 300
caaaggtgtg accggngtgg gttaggcgac tagattgcac gattatgtac ttgagatttg 360
tttggtgaac tgggttgccg acggttaate ttctccattt gattttatct tgtagcagc 420

<210> 11605

<211> 413

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-024-Q1-K1-G5

<400> 11605

gcagaggcaa caagggggat tcaccaaggg aatgatgat gcaccagacc ttagttttga 60
aggagaagaa ggatttaaac aatctaagaa aaggagacct ggtgtttctc ctggtgacag 120
gtctggtggt cttgctaagc gaggtaaaga aggaaagaac aggagggcaa aggattccat 180
gtttgggcac ggtggtcgta aagggtgaa gaagcaaac accgctgaga ccactaatga 240
tttcagaagc tttaaccagg ggggtcagtc tcaaaacaag aagagaaaga ggttttgaac 300
ttttgatgga tatattaaga atttgggtga gtctcaaac cagaagagga agaagttntg 360
aacttttgtg ttattactat tccccctgc ggcattattn tggtatggtg tgt 413

<210> 11606

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-G6

<400> 11606

gcattcagaa acacacctag cgaagcgac tagcaacgac ctaacaacaa tggctaccaa 60

gatattatcc ctctttgccc ttcttgccct tttgtgagc gcaacaaatg cgttcattat 120

tccccaatgc tcaattgctc ctagtgccat tattccacag ttcctccctc cagttacttc 180

aatgggcttc gaacacccag ctgtgcaagc ctacaggcta caacaagcgc ttgcggcgag 240

cgtcttataa caaccaattg cccaattaca acaacaatcc ttggcacatc taaccataca 300

aaccatcgca acgcaacagc aacaacaatt tctaccagca ctaagccaac tagctgtggt 360

gaaccctgtc gcctacttgc aacagcagtt gcttgca 397

<210> 11607

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-G8

<400> 11607

cccacgcgtc cggagatcgt gcagagaagc aagccaatgt caccacacca cgccgacctt 60

ctacttctga aagactcccc atcaaaagag agactgcagc aaagcataat gatatttccg 120

ctgtacgtcg accctctaca ggagagagac gtgcttttac tagagatggt gttctgagaa 180

ctgatgtgaa gacacctagt aaggcaagag caactgtggc tcatccgatg agtgaaatga 240

ctacagtggg caatacgaga aaggctatca ctccaaatgc agctagaagt agcaagctgg 300

aaacaaaaag caataactac agactgaagg gaccttcagc attggatagc cactctacta 360

ggtcaaacag aatggacttg caagtgtctg gcaagcagaa atcgagttct gttaacct 418

<210> 11608

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-F2

<400> 11608

aaaaaaaaa aaaaaaaaaa aaaaaattta atttaaaaaa aaaaaaaaaa aaaaaaaaga 60

aaaggaaaaa aaaataaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaataaaa aaaaaaaaaa ataaaaaaagg cctacttttt 180
 taaaattttc aattttttatt aaagttacat aacaaaaatt aacttttctt tttttaaaac 240
 taaattaaat ttaaaaaacc ctgtttttaa aaattttta tggaaaaaac ttatgttaac 300
 caaaataaat tgcttttaaa aaaaaaacct tttttccaat tgggtttata accaaaaggc 360
 ccctttaaat gcccatTTta aaaaattttt aaaccttaat ttaaaaag 408

<210> 11609
 <211> 422
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-024-Q1-K1-D4
 <400> 11609

cggaCCCctg ggggggtggc ttttcttccc ctcccggttc ggggtcgggt tcgtgaggtt 60
 ctccgggggt cggggtcgtg ggtgagcgga tcgagatggc ggcgtcggat gttgagtacc 120
 gctgcttcgt cggcggcctc gcctgggcca cggacgacca ctccctccac aacgccttca 180
 gcacctacgg cgaggtcctc gagtccaaga tcctcctcga tcgggagacg cagaggtccc 240
 gcggcttcgg cttcgtcacc ttctccacgg aggaggcgat gcggaacgcc atcgagggca 300
 tgaacggcaa ggagctggac ggccgcaaca tcaccgtcaa cgaggcccag tcccgcggcg 360
 gccgtggagg cggcggcggt gggtagcgtg gtggccgtgg aggcggcggc tacggcggtg 420
 gc 422

<210> 11610
 <211> 425
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-024-Q1-K1-D8
 <400> 11610

cccacgcgtc cggaccact atcccaaac cgtagcggc tcgcctgctc gccgccggcg 60
 tcgttgcgag ctccccatct tcctccgtca accatggcga cccagatcag caagaagaag 120
 aagttcgtca gcgacggcgt gttctacgcc gagtcaatg agatgctgac gcgggagctc 180
 gcggaggacg gctactccgg cgtggaggtg cgcgtcacac cgatgcgcac ggagatcatc 240

atccgcgcca cgcgcacgca gaacgtgctc ggcgagaagg gccgcaggat cagggagctc 300
acgtctgtcg tccagaagag gttcaacttc cccgagaacg gcgtcgagct ctacgccgag 360
aaggctgtca accgcggcct ctgcgccatc gcgcaggctg agtcctccg ctacaagctc 420
ctcgg 425

<210> 11611
<211> 386
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-024-Q1-K1-E11
<400> 11611

cccacgcgtc cgcccacgcg tccggatcag catgttttac aagagattgt taaaattgtc 60

cagaagaggc atgatatgca agtgagggat aaggctttgt tacttctgga ttcattggcaa 120
gaggcatttg gtggacctgg tggcaaatat ccacagtact actggtcata cattgaacta 180
aagagggcag gagtaatgtt cccacaacgt cctgtagatg ctccccaat atttactcct 240
actgcaacac atcaggcata tggttcacct agatatacct ctggaagtct aaatgagaga 300
atcacatctg atgctggaac gttgagcttt gagggcttga ataataattag aaatgcaacg 360
gaactgctgt atgatatggt gaatgc 386

<210> 11612
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-E12

<400> 11612

aggcaatcac agcaggcatc ttacctttat cacccttggt cctacaacaa tcatcaggcc 60
tattacatca attacctttg gtgcatttat tggcacaaaa catcagggca caacaactac 120
aacaactcgt gctagcaaac cttgctgcct acgctcagca acagcagtta cctttgggtgc 180
aattgttggc acaaaacatc agggcacaac aactacaaca actcgtgcta gcaaaccttg 240
ctgcctactc tcagcaacag cagtttctgc cattcaacca actagctgca ttgaactctg 300
ctgcttattt gcaacaacaa caactactac cattcagcca gctagctgct gctaccacc 360

CCGCGC

agcaatttct tccattcaac caactggcag cattgaactc tcctgctt

408

<210> 11613
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-E2

<400> 11613

cctcgatcgg gagacgcaga ggtcccgcgg cttcggcttc gtaaccttct ccacggagga 60
ggcgatgcgg aacgccatcg agggcatgaa cggcaaggag ctggacggcc gcaacatcac 120
cgtcaacgag gccagtcctc gcggcgcccg tggaggcggc ggcggtgggt acggtggtgg 180
ccgtggaggc ggcggtctac gcgggtggcg gcgccgtgat ggcggtggcg gctacggcgg 240
tggcggcggc tacggtggcg gcggcggtta cgggtggtgt ggcggcggct acggcggtgg 300
caaccgtggc ggcggtctac gcaactccga cgggaactgg aggaactgag cggtggggcc 360
cgcgcgccca agttatcctg ttcgctaccg tgatgtttac cctagtc 407

<210> 11614
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-E6

<400> 11614

atccacacat ccacagaatc cattatcttt tcttctatat aatatataca aacaacaggt 60
atcatttctc ctatctaagc attaacatct taacatgaat acctccatac cataaccaca 120
aaaaagccca ataacgctcc aaacgctaag actaactatg actgtacaca tacttacata 180
catgacgctg ctactatcat tacacatgcc tatatatcag cacgctcaac gctatacacc 240
aatctaata cagctacgct tgtacatgtt tatcatcata tagcatttta cgaacctaac 300
aacatt 307

<210> 11615
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-E7

<400> 11615

ccgaggtcga aataagctgc tgcgggcaga ccgtgaaccc tgggcaacct gtgcgcaact 60
tggtggagcg gtggtgagg gttggcccgg cgcgcccgct gcacacggtg atcgggtcct 120
ccgggggaga ttatgtgatg gtgataagct atgggcggcc caagtccgcg tcctgttaaa 180
accatatcac catcgacggc ctggcgaggt cgattcctag ttcgaacaag ggttggtgcc 240
gccgccgctg ccgccgccgg ggaagaggcc gtcgacagat aaactcaagc agcggtagcg 300
ggctgctctg ccgcagcagc tcgtcctctc accggcgctgt tctttaaaaga tctgttcgtt 360
cgttcgttgt tgtcatacat gcacatgtga tggaagtcgc tataatttgg tagtacttg 419

<210> 11616

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-E9

<400> 11616

cccacgcgtc cgcgaacgaa gatgttgctg gtgttcagcg ggcaggtggt ggaggtgccg 60
gcggagctgg tggcggcggg cagccggacg ccgtcgccca agacgaaggc gtgcgagctg 120
gtggggcgct tcctggccgc ctccgagccg gccgtgtccg tgcagctcgg cgaccacggc 180
cacctcgctt actcccacac caaccaggcg ctctccgcc ccaggtcgtt cgcggccaaag 240
gacgaggtgt tctgcctgtt cgaggggggtg ctggacaacc tgggtcgtct gagccagcag 300
cacgggctgt caagcaaggg cgccaacgag gtgctcctcg tcatcgaggc ctacaagacg 360
ctgcgcgacc gcgcgcccta cccggccagc tttatgctcg c 401

<210> 11617

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-F10

<400> 11617

cggacgcgtg ggcaactagc aacatataaa gcacaatagt gtaccaacaa tggcagccaa 60

aatatTTTTgc ttccttatgc tccttgggtct ttctgcaagt gttgctaccg caaccatttt 120
cccacaatgc tcacaagctc ctatagcttc cttcttcccc ccatacctct caccagcggt 180
gtcttcaatg tgtgaaaacc caattgttca accctacagg atccaacagg caatcgcaac 240
aggcatctta ccattatcac ccttgttcct ccaacaaccg tcagccctat tacagcagtt 300
acctttgggc catttgggtg cacataacat cagggcacia caactacaac aacttgtgct 360
agcaaacctt gctgcatact ct 382

<210> 11618

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-F11

<400> 11618

cccacgcgtc cgcccacgcg tccggcggcg cccttttttt tttttttttt tttttttgac 60
tatggcgggtg atctgggttca tgcagaaaac agaagtacag aagccagtgg ctttgtcgtc 120
cacctgtgaa gagctgaata cgttttgtct cagtgcgcga gtagagtagc ttaacactac 180
atactgtaaa catcatcatt tatcagcacg ggatcctatt ctccaaaagg aaaaagacaa 240
tatttttttt tgatcaacta tgccctccctc atagctagag atagtaagca gggctctgcct 300
gccggatggg ctgttgatga ggctagaaga tcgttgggcc tcggaacggc aagcagacaa 360
ccctcaggtt cctaggtgc gggacctcct ccaaccatgc cagccgaca 409

<210> 11619

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-F12

<400> 11619

acggactcat ctactgagca gcgcgggtggg catccgagcg agagggcgag cgccgggagga 60
tcggaattcc gaaggttggg catggaggcg agcggcgaga aggctgcggt ggtgcgacgg 120
ctgatggagg cgaaggaggt gtccgggaag accttctcgg gaatcgccgc cgagacgggt 180
ctcaccaacg tctacgtggc gcagctgctg cggcgccagg cgcagctcaa ggccgacacg 240

gtgcccgcgc tgagggcggc cctgcccacg ctcacggacg acctcatcga actcatgatg 300
cagccgcctt tccggtccta ccaccccaac atcggtccacg agcccgccat ttacagattg 360
aatgaagctg ttatgcattt tggagagagc atcaaggaaa tcatc 405

<210> 11620
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-B4

<400> 11620

cccacgcgtc cgggttcaca caaattggag atgaactacc agatgatatt actcttagag 60
atgtcatgga tactttacct aaagaggtat ttgaaatcaa tgatgtgaag gcttggacat 120

cagttttgat atcagttact tcttatgcgc tgggtttata tttcattgct aagtctccat 180
ggtatcttct tcccttggtc tgggcttggc caggcacagc agtgactggg ttttttgtga 240
taggtcatga ttgtgctcac aaatcatttt caaggaataa gttggttgaa gatgttggtg 300
gaaccttggc tttcatgcca ttgatataac cttatgaacc gtggagattt aagcatgacc 360
gacatcatgc caagacaaac atgttgatag aagatactgc atggcaacct gtttggca 418

<210> 11621
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-B5

<400> 11621

ccattcgcac ctgcctcctt ttccttgtag ccgaagaaga gggaaaggaa gggaggacag 60
ccgtcgccgc cgccgccgcc gccaccgtca ggatgcattc cacgaacctc ctgctcgagg 120
agcccatccg gatggcctcc atcctcgagc cctccaagcc cagctacttc ccggcgatga 180
ccaagatcgt cggcactctc ggccccaaat cgcgctccgt cgacacgac tccgactgcc 240
tcaaggccgg catgtccgtc gcccggttcg atttctcgtg gggggacgcc gcgtaccacc 300
aggagacgct ggagaacctc aagctctcca tcaagtccac caagaagctc tgcgctgtca 360
tgctcgacac cgtgggcccc gagctgcagg tggatgaaca gagcgagacc ccgatct 417

<210> 11622
 <211> 414
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-024-Q1-K1-B6

 <400> 11622

 cggacgcgtg ggattcaatg tctaagggtg cagatattga agctgctgag aagcagagaa 60
 tgagagagaa agtccaaaag atcatagcac acgggatcaa ctgttttgtc aacaggcagt 120
 taatctataa cttccctgag gaactctttg ctgacgctgg cataacttgca attgagcatg 180
 ctgactttga gggcattgaa cggctggctc ttgttactgg tggtagatc gcatcaactt 240
 ttgataatcc agagtctgtt aagcttggtc actgcaaggt cattgaagag attatgattg 300
 gggaggacag gctaatecat ttctctgggg ttgcgatggg gcaggcttgc accattgtcc 360
 taaggggggc tagtgagcat gtgctcgatg aagctgagag gtccttgcac gatg 414

<210> 11623
 <211> 419
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-024-Q1-K1-B7

 <400> 11623

 aattttctga ccaggttgtg aagtgggact tctggtaccc gaccgagggc atccatagac 60
 gctgggacaa tggcttccgt attactgcaa tggctgccac gatggatcag tctgcgctga 120
 tcctaagcaa gccaaaggcgt cgcccaagag acgagacaca ngagactctg cggactacac 180
 agtttcccag tcaacatgtc aaggacaagt gggccaagaa tctctacctt gctgggatat 240
 gctatgggag aaaccgtgcc taacatcgct cgttgctgac cctaggctgt gttgatgtat 300
 attttgaagt ttttatcaac tgctaccaac atgaaccaca aggcaattgg cctgtcgtaa 360
 cccatgaaaa ttgaaagggg atgaattccg atgtatgtgc ccgaacttga ttctagggg 419

<210> 11624
 <211> 422
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-024-Q1-K1-B8

<400> 11624

cggacgcgtg ggcggacgcg tgggtgcgtc tccgccgtgc aggatctcag gggggcggat 60
cttgtgatcg aggccgtcgt ggagaacgaa gacgtcaaga agaagctatt cgtggagctg 120
gataaggta cgaagccctc ggacatcctc gcctgcaaca cgagctccat ctccgtaacc 180
cgcttggtt cagctaccaa acgccccctc cagggtgatag gcatgcattt cttcaaccct 240
tctncggtaa tgaaactgat cgaggttatc cgaagagccg atacgtcaga tgaagtgttt 300
gcttgtggca gaactttcta cgaaaggctt gggaaggccc gtatattgct cgaaggatta 360
cccaggattc atcgggaacc gcacccctcat gccgatgatc aacgaggcct tctgggctct 420

gt 422

<210> 11625
<211> 218
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-B9

<400> 11625

cccacgcgtc cgcccacgcg tccgcccacg cgtccgagag gtcacacata tcagcatgag 60
aactttatta ttacagtata aatcataaaa aatctagcag agtatttagt gttagattat 120
tgtagaaaatt acgatttaga cttgtttcta aatgaataat tgtatatata attagaagat 180
catgatcggt tgagaaaaaa attggtggta ttggaact 218

<210> 11626
<211> 389
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-024-Q1-K1-C10

<400> 11626

cctcgaaaat cgccccgatg ggcgcgtcca tctccgtcgg cgccgcggcg cctccgggtg 60
catcggtccc aaccccgaaa aaacccacc aaggggagct cctgcggggg cggaacgcgg 120

agctggagcg ggaagtggcg gcgctgcggc tggagctggg cgcggcgcgg cgccgcgccg 180
agacggcaga agaagccgag gagcggctgt gcgtgcagct cggcgacgcc gaggtggaag 240
cgctcgagct cgcgcgccgc taccaggccc acgtccacga gctcgccagg gagctcgncg 300
ccgcgcgcgc gggcccgcac gcccacaga taggttctcg tgggctggta gtaggctact 360
agtagctata gcgtgcgggt cagcgggat 389

<210> 11627
<211> 200
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-024-Q1-K1-C11

<400> 11627

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaggg 60
aaaaaaaaa aaaaaaaaaa taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaggaa 120
aaaatgttat gggatttaaa ggtaacttaa cttgaattgc cgtggtttaa caataatgtg 180
gctgaaaaaa acttgagtaa 200

<210> 11628
<211> 401
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-024-Q1-K1-C12

<400> 11628

gggtttctac tgatggtagc agatagatgt gtagattgat tgatacatca tcggccgggt 60
ggaagaattg ataccacaaa aactgctata tatatatgta ctgtgagtaa acagttaaaa 120
ttaaacttgt gagatatacc gtacatatga agagctagct agtagtgagt gataaagtgg 180
gaaagtgaag catatatagt cgtaaaaaca atcacatgaa ttgctattag gcaccatata 240
tatgcactta attatattgg ttgaggagac ctaataaatc atttgaccta ccatgcatat 300
aattgcagtg cgaagcacca tatatatata tgcagtggca gcatgcagaa accaaaaaag 360
tgtataggta cagtaagtac cagcagctag gctcagggt g 401

<210> 11629
<211> 281
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-C3

<400> 11629

ggccaaagtg gattgaaggg ttgcttgacc agttgactga tatggtggtg aatgcagttc 60
tgtgcattcg caaaccagat gaaccaattg atctattaat ggtggaaata atgcacatgc 120
gcaacaaatt tgatgttgac acccgtctgg ttgagggctc ggtcctggac cacgggtctc 180
gtcaccctga catgaagcgc agggcagaga attgtacatc ttgacctgca atgtctcatt 240
agaatatgag aaaagtgaag tcaatgcagg attttttact c 281

<210> 11630
<211> 417
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-024-Q1-K1-C4

<400> 11630

atttgacctg ggtgatgccg actatttttaa ggattaaggg attccagaag ttggttcggg 60
cattgcacca tcttgagcaa aattatgaat tcatgacatc tgatcaccag tatattttccc 120
ggaaacatga ggaggataag gtgatttgtt tcgaaaaggg agatttggtta tttgtgttca 180
acttccactg caacaacagc tatttttgact accgtattgg ttgtcgaaag cctgggggtgt 240
ataaggtggg cttggactcc gacgctggac tatttggtgg atttagcagg atccatcacg 300
cagccgagca cttcaccgnc gactgttcgc atgataatag gccatattca ttctcggttt 360
atacaccaag cagaacatgt gtcgtctatg ctccaatgga gtgatagccg ggtactc 417

<210> 11631
<211> 220
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-C5

<400> 11631

acataagcgt cagggtcggc ttatcacttg actgatattg gtgtgaatgg gaaggagcac 60
cagccatatg tgcacgtcaa cttctaccgc atctatgggtg atacgttcaa gaaaccaagg 120
cgtgcttatg agacggagcg tcttgatgct gcaactgaaac tagctactga gtattgcctg 180
aggtgcaaac atgagcttat caggagacac tatgcactga 220

<210> 11632
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-C6

<400> 11632

gcgacgagcg cgtcacatca gccaatgag gagttacaag aacattcatt ggggcaggta 60
accatacaag agatagcaac gcatcaatta caacaatcta gaccagcact gagccaacta 120
gctgtgaaga accatggcgt ctactggcaa caggagctga tcgcatgcaa ccaactagct 180
ctggctaaca tagtggcata ccagcaacac caacagtcgc aacagcattc taccagcgct 240
cagccaacta gccatggtga accctgacgt ctacctacga cagctacaac tgagttaatg 300
tagcacctat aggtgagggg aacgcaccta catacctgca gcaac 345

<210> 11633
<211> 276
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-C7

<400> 11633

cgcaaattgc accaagaaat ccatcgagag gccgtcgaca ggggaattaa tggcgtggtc 60
gtctagcaac agccaccgcc gcctcactct cgcagccgcc gtcctgctct ccgtgctcgc 120
ggctgccagc gccagcgccg ggaccttctg cgtgccgggg tgggccattc cgcacaaccc 180
gcttccgagc tgccgctggt acgtgaccag ccggacctgc ggcatcgggc cgcgcttcc 240
gtggccggag ctgaagagga gatgctgccg ggagct 276

<210> 11634
<211> 251
<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3059-024-Q1-K1-C8
 <400> 11634
 aaaaaaaaaa aaaaaaaaaat aaataaataa aaaaaaaaaa aaaaaaaaaa atgagaaagg 60
 aaaaataaaa aaaaaaaaaa aaaaaataaa aataaaaaaa aaaaaaaata aatataaaaa 120
 ctaaaaaata aaaaaaaaaa aaacaaaaac aatactgcat gcctttatgg gccataaagt 180
 acaaccgct accgatctaa ctttggtact ttaccaggcg gacctgaagt atatttcctt 240
 gcctcccgtt t 251

<210> 11635
 <211> 407
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-024-Q1-K1-C9
 <400> 11635
 cacgctcagg agcaacgtcg ctccgcagac cacgcagttc gtgcccacgc ccgcctgcgt 60
 atccgcgccg accgaggctc ccgcctccga gcgaaaagcg ccggcgccgg cggagaaggc 120
 ttcgaaggaa gctcctactc ctgcgcttgc gaagaaggaa gcccctactc ctgcggttga 180
 cccgctcggg agcgccaggg ggaaggtgca ggaggagtg atgaaggagt tcgcggtccat 240
 catggccagc ggtacgctac gggccagcga ggcggcgcg ctggccatgc gccgggtcat 300
 ggagcgccac agcgacggcg ccacgatgca gcagggctag acgaatcagg ctgtgaacgc 360
 gttccggttc catgggaatt ggaatttgtc atctgcatgc tgatgcc 407

<210> 11636
 <211> 168
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-024-Q1-K1-D1
 <400> 11636
 cccactcggt cgaccgcttc aacaggtcat aaccttaact cnaattatcn ctgcaacttc 60
 aatcaaacg tgatagtccc aaaatatctc aggtctatca ctttcaagct attcaacttc 120

aatccacact tcaataactca atcacctttc acattcccat aacttttc 168

<210> 11637
<211> 245
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-D11

<400> 11637

cccacgcgtt cgtccacgcg ttcgcccacg cgttcgcaca agtccaagga gtgccttgct 60
ctgatactca tcatcaggaa caggctcaag tatgctctga actaccgtga ggtcatttct 120
atcctgatgc aacgccatgt acttggtgat ggcaaggta ggactgacaa gacctaccct 180
gctgggttca tggatgtcat ttccattcct aagacaatgg agaactacag gctgctttat 240
gacac 245

<210> 11638
<211> 117
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-D12

<400> 11638

ggcaaattat ggttctctcc tgttcggttg agtggttgca ttctggaggt atcttgttct 60
ggactcaggc taatgattgt gcgtgcgact gtttcagagt catttcaaag gttatcc 117

<210> 11639
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-B3

<400> 11639

cttcgtcaac ggggccgtcg gcgcgttcgt tgccggagcc tctgtctgcg gctacagagg 60
aaagagtatt cagtcagccc tcatcggagg ctctgtctg gctttcacat ctgctgtgct 120
ggacattggc ggcaatacga ccagagttga caacggcaaa gagtactatg cctacacaac 180
tgagaagaag cctgcaaatt gattccaagt ctgcatttct agcaacaat cttgcacgcc 240

atcaactcag tgaatttgaa gctgatgtgc agttttatgt ctggtttgct gatgcaatta 300
 gttcttaagc aaatccatgg caacttgttt atcgctgatg cttgagggat ggaaatgaca 360
 ctcagaataa tatttgattt gctttcttgt gatcgttgat caccat 406

<210> 11640
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-023-Q1-K1-H8
 <400> 11640

cttgcacac cagcagcgtg ggctctctcc tttctcgacg acgactgggc caccgtcgct 60
 gccgcctgcc gcctgccgcc ctgcgccagg tgccaagcag ccaggtgttc ttgggggeet 120
 tcgccggcga cgagcaccac cagctgaaag atggcgagga taccgtctct gaagagcctc 180
 aatgcgtttc cacatgcgga agagcacttg ttgaagaaga cttactctgg cgctgttggtg 240
 acaatttttg ggctacttat aatgattaca ctgtttgtgc atgagctgca gttttatctt 300
 accacctaca cggatgcacg gatgtctgta gatctgaaac gaggagaaac tctgccaatc 360
 catatcaata tgtcatttcc ttctttgccg tgtgaagtat tgagtgtgga tgcaattgac 420
 atgtctg 427

<210> 11641
 <211> 403
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-023-Q1-K1-H9
 <400> 11641

agccgcgaca ctcaagagat acacctagaa caaggccttc agatgctcaa gatattcaag 60
 gagcatgtca gcaagacgtc catcctggat gacttcgcct tctatgagag tcgccagaag 120
 ctgatgcagg ataagaggtc gaaacagcag cagggtccaaa agcaggtctg ggacagtagg 180
 acccccattt ctgtcactgg aagcgagcaa cagcaggaag ctgccaatgg gaagcccaat 240
 ccgtctgtac caaacggtgt ccctgcagag gtgaaggcgg cgaaggcttc tgcagagaac 300

ggcaccgnca ctccagctat ttcctacgcg gcaaaggtgg cccaagcagc aacagagaaa 360
cctgtgctcg ccaacggagt cgctaagacc ggtagctgg acc 403

<210> 11642
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-A1

<400> 11642

cggacgcgtg ggcattcctt ctctgctcct tcgcccgcgc tatggttaag tactcgcagg 60
agccgggcaa ccctaccaa tggccaagg ccatgggaag ggacctgagg gtccacttca 120
agaacacaag ggagacagct tttgcgcttc gcaagctgcc tttgaccaag gctaagcgat 180

accttgagga tggtattgct cacaagcagg caattccctt ccggagatac tgtggaggtg 240
ttggtcgcac cgcacaagca aagtctcgcc actccaatgg gcagggtcgc tggcctgtta 300
agtcagccag gttcatattg gatttgctga agaattgctga gagtaacgct gatgtgaaag 360
gcttgagcgt ggacaacctc tatgtttcac acatccaggt gaaccaagcc cagaagc 417

<210> 11643
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-A2

<400> 11643

gaccaactag caacatagaa agcacattag tgtaccaaca atggcagcca aaatattggg 60
cttccttatg ctcttggtc tttctgcaag tggtgctacc gcaaccattt tcccacaatg 120
ctcacaagct cctatagctt cccttcttcc ccatacctc tcaccagcgg tgtcttcaat 180
gtgtgaaaac ccaattgttc aaccctacag gatccaacag gcaatcgcaa caggcatctt 240
accattatca cccttggttc tccaacaacc gtcagcccta ttacagcagt tacctttggt 300
ccatttggtg gcacaaaaca tcagggcaca acaactacaa caacttgctg tagcaaacct 360
tgctgcatac tctcagcaac atcagtttct tccattcaac caactggctg cattgaactc 420
tgctgctt 428

<210> 11644
 <211> 261
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-024-Q1-K1-A3

 <400> 11644

 cccatttcga cccatgcgta cggcgaacat acaaagcaca ttagtgtact aacattttca 60
 gccaaaatat tttgcttcg tatggctcctt gatctttctg caagtgtctgc taccgcaacc 120
 attttaccac aatgctcaca agctcctata gcttcctttc tttccccata cctatcacca 180
 tcggtgtctt cagtttgtgc aaaccttatt cttaaccct acagcatcca acaggctttt 240
 tgtagcacgc atattacctt t 261

<210> 11645
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-024-Q1-K1-A4

 <400> 11645

 aactagcaac atagaaagca caatagtgtgta ccaacaatgg cagccaaaat attttgcttc 60
 cttatgctcc ttggtctttc tgcaagtgtc gctaccgcaa ccattttccc acaatgctca 120
 caagctccta tagcttcctt tcttccccca tacctctcac cagcgggtgc ttcagtatgt 180
 gaaaacccaa ttcttcaacc ctacaggatc caacaggcaa tcgcagcagg catcttacct 240
 ttatcacctt tggtctcca acaaccgtca gccctattac agcagttacc tttggtgcat 300
 ttgttggcac aaaacatcaa ggcacaacaa ctacaacaac ttgtgctagg aaaccttgct 360
 gcctactctc agcaacagca gtttcttcca ttcaaccaac tggctgcatt gaactctgct 420
 gctt 424

<210> 11646
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-024-Q1-K1-A5

<400> 11646

caactagcaa catagaaagc acaatagtgt accaacaatg gcagccaaaa tgtgttgcc 60

ccttatgctc cttggtcttt ctgcaagtgc tgctacggcg accattttcc cgcaatgctc 120

gcaagctcct atagcttccc ttcttcccc gtacctctca ccagcgggtgt cttcggtatg 180

tgaaaaccca attcttcaac cctacaggat ccaacaggca atcacagctg gcattctacc 240

tttatcacc ttgttcttcc aacaatcatc agccctatta catcagttac ctttgggtgca 300

tttattggca caaaacatca gggcacaaca actacaacaa cttgtgctag caaaccttgc 360

tgctactct cagcaacagc agtttcttcc attcaaccaa ctagctgcat tgaactctgc 420

ttctt 425

<210> 11647

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-A6

<400> 11647

cagataccea catagacagc acaatagtct accaacaatg gcagccaaaa tatgttggt 60

ccttatgctc cttggtcttt ctgcaagtgc tgctacggcg accattttcc cgcaatgctc 120

gcaagctcct atagcttccc ttcttccac gtacctctca ccagcggagt cttaggtatg 180

tgaaaaccca attcttcaac cctacaggat ccaacaggca atcacagctg gcattctacc 240

tttatcacc ttgttcttcc aacaatcatg agccctatta catcagttac cttcggtgca 300

tttattggca caaaacatca gggcacaaca actacaacaa cttgtgctag caaaccttgc 360

tgctactct cagcaacagc agtttcttgc attcaaccaa ctaactggat tgaac 415

<210> 11648

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-A7

<400> 11648

gtccctgatg ctgcagcaac tgttggcctt accgcttcag acgatgccag ggatgatgcc 60

acagatgatg acgcctaaca tgatgtcacc attgatgatg ccgagcatga tgtcaccaat 120
 ggtcttgccg agcatgatgt cgcaaatgat gatgccacaa tgtcactgcg acgccgtctc 180
 gcagattatg ctgcaacagc agttaccatt catgttcaac ccaatggcca tgacgattcc 240
 acccatgttc ttacagcaac cctttgttgg tgctgcattc tagatggaat aattgggggtg 300
 gtcccaatta tggagtgacc ttgcattggg tgggaactaa ttataattac cattaaacca 360
 ggtttctttt aaaaaaaaaa aaaagggccg gccg 394

<210> 11649
 <211> 421
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-024-Q1-K1-A8

<400> 11649
 cccacgcgtg cggtttcttc ctggcagaga cgctgaagta cctgtaccta cggggctgcc 60
 ctacatcagt catattcttc gacgagtggg ttttcaatac tgaagctcac ccattgagaa 120
 ttgctccagt aagtgataac aaaggcattg gaacaccggt ccgacaattc aggagaaaac 180
 agggaaagcc tgagtaacct tggatataga gcagtggatt tttgaatctg ccgtctgatt 240
 atgaccgtcc tgacgatgtg ctctgacacg aggggaacttt ttgcctgaag caataagggg 300
 taaaaaatta cgggatagat tgcttagagc aaanatcata ggtagaggat gatgttatat 360
 gcggcgcatt gacctccgtg aggtcaagag ccccatagaa gcttctatct ttggatttgc 420
 t 421

<210> 11650
 <211> 357
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-024-Q1-K1-A9

<400> 11650
 cggacgcgtg ggcggacgcg tgggcggacg cgtgggcttt gttcccatct ctgggtgcga 60
 aggtgacaac atgattgaga ggtccaccaa ccttgactgg tacaagggcc caaccctact 120

tgaggctttg gacttgatca atgagccgaa gaggccttca gacaagcccc tgcgtctccc 180
 cctacaggat gtgtacaaga ttggtggtat tggaactgtt cctgttgggc gtgttgagac 240
 tggatcatc aagcctggta tgggtgttac ctttggctct agtggcctta ctactgangt 300
 gaagtctggt tgaaatgcac catgaggctc tccaggaggc ccttcttggt gacaatg 357

<210> 11651
 <211> 413
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-024-Q1-K1-B11

<400> 11651

ggctttctct cccctccgg ttcgggttcg ggttcgtgag gttctccggg gttcgggttc 60
 gtgggtgagc ggatcgagat ggcggcgtcg gatgttgagt accgctgctt cgtcggcggc 120
 ctgcctggg ccacggacga ccactccctc cacaacgcct tcagcaccta cggcgaggtc 180
 ctcgagtcca agatcatcct cgatcgggag acgcagaggt cccgcggctt cggcttcgtc 240
 accttctcca cggaggaggc gatgcggaac gccatcgagg gcatgaacgg caaggagctg 300
 gacggccgca acatcacct caacgaggcc cagtcccgcg gcggccgtgg aggcggcggc 360
 ggtgggtacg gtggtggccg tggaggcggc ggctacngcg gtggcgggcg ccg 413

<210> 11652
 <211> 393
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-024-Q1-K1-B2

<400> 11652

cccacccttc cgccaaccct tcggccaagc cttccggcca attggacca gaaattggtt 60
 caaaaggccg tcaccggggg aattaatggc gtctctgtct agcagcagcc accgncgnt 120
 catcctcgca gccgcgctcc tgctctccgt gctcgcggct gccagcgcca gcgcggggac 180
 ctctgcgtg cgggggtggg ccatcccgca caaccgctc ccgagctgcc gctggtacgt 240
 gaccagccgg acctgcggca tcgggccgcg cctcccgtgg ccggagctga agaggagatg 300

ctgccgggag ctggcggaca tcccggcgta ctgccggtgc acggcgctga gcaccccat 360
ggacggcgcg atcccggcgg gcccggaagc gca 393

<210> 11653
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-H7

<400> 11653

cccacgcgtc cggacacgtg gtatgggagc cgggcgcaag ctcaagaccc accgcaggaa 60
ccagcgggtg gctgacaagg catacaagaa gagccatttg ggcaatgagt ggaagaaacc 120
cttcgctggg tcatcccatg ccaagggcat tgtcctggag aagattggta ttgaggccaa 180
gcagcccaac tccgctatcc gtaagtgtgc tcgtgttcag cttgttaaga atggcaagaa 240
gattgctgcc ttcgtgcaa atgacgggtt tttgaactac attgaggaaa atgatgaggt 300
cttgattgct ggatttggtc gtaaggggca cgctgtggga gatattcctg gtgtccggtt 360
caaggtcgtc aaggtttccg gtgtgtctct gcttgccctt ttcaaggaga agaaagag 418

<210> 11654
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-G3

<400> 11654

gcaacataga aagtggaatc cagtagcaac aacagagcaa caatggcgac caagatattt 60
tccctcctta tgctccttgc tctttctgca tgtgttgcta acgcgacaat tttccctcaa 120
tgctcacaag ctccatagc ttccttctt ccccatacc ttccatcaat gatagcttca 180
gtatgtgaaa acccagctct tcagccctat aggctccaac aagcaatcgc agcaagcaac 240
atacctttat cacccttggt gtttcaacaa tcgccagccc tatctttggt gcagtcattg 300
gtacaaacca tcaaggcaca gcagctgcag caactcgtgc tacctgtgat caaccaagta 360
gctctggcaa acctttctcc ctactctcag caac 394

<210> 11655

<211> 407
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-023-Q1-K1-G4

<400> 11655

gccacccgtc cgccaacgcg tccgtttttt tttagatcaa aatgagggtg cagatgtaca 60
tttgagggtca acagaaaact cttatactac attggtaata tgtgacaaga gaaacaaaag 120
ttatatttaa aaaggctctg ctagctccct attcagctat aaacatttca gaggcaatat 180
acattagacc gtggactcaa atccatctgt tctactagcta tatgtattag cagactgaat 240
caactcaagg gcttgatgag cgtgtgctct tgcttgctag agacgacctc attgtgacaa 300
tggcagattc gtttgcgccc aacegcaccc ncttggtgct cgctgcaga aagctcgtga 360
tggtcgcgcg cacgtacgca tcggcctggt tgactgtcat cttcttc 407

<210> 11656
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-G5

<400> 11656

cccacgcgtc cgatggtcgg caacgccatg accgtcaccg gcgtcaccat gaagaagctc 60
cgaggaggacg tcaagatcca gaggaacctg gtggagacgg cgctggcgct gggcgcgacg 120
ccgcggcagg cgacgtgca gcagggaag cggtcgtgg tcatcgcgct gtccccggtg 180
atcgacagcg ccaagacggt ggggtcatc gcgtgccgg gcgcatgac ggggtcatc 240
atgggcggcg cgctgccgct tgaggccatc cagctgcaga tcgtcgcat gaacatgctc 300
atgggcgcct ccaccgtcag cagcatcctc tccacctacc tctgctggcc ggccttcttc 360
accaaggcct tccagctcga cgacagggtc tttgcagact aagatacctg ct 412

<210> 11657
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-G6

<400> 11657

gtccgcttct tgaggagtgt ggtttggatt gcaactagga tgtcagtga tcagctgccc 60
caatctgcat atgcttgaag tatattttct ggtgtttgtc cccatattca gtgtctgtag 120
ataagagaca tgaaatgtcc caagtttctt ttgatccatg gtgaacctac ttaatatctg 180
agagatatac tgggggaaaa tggaggctgc ggcaatcctt gtgcagttgg gccgtggaat 240
acagcatatg caagtgtttg attgtgcagc attctttatt acttggtcgc aatatagatg 300
ggctgagccg aacagcaagg tatttttgatt ctgcactgct cccgtgtaca aacttggttc 360
tcaataaggc aggcaggaat gcatctgcc a gtgg 394

<210> 11658

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-G7

<400> 11658

cccacgcgtc cgcggaacgcg tggggatcat ttgcttcacc tcttctggga gggctgcaag 60
gtcatcgcc aagtacaggc ccaccatgcc tgttctttct gttgtcattc ctcgtctgaa 120
gacaaaccaa ctgagatgga gtttctactgg tgcttttgag gcaagacagt cgctgatagt 180
tagaggcctc tttccgatgc ttgcagatcc tcggcatcca gccgaatcaa ccagtaatac 240
aaatgagtca gttctgaagg ttgctctaga ccatggcaag gcatgtggtg tgatcaagtc 300
ccatgaccgt gttgtcgttt gccagaagg gggagattca tcggttgatga agatcattga 360
gctggacgac tagggcatac tttgccgatt ttttttttga 400

<210> 11659

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-G8

<400> 11659

atgatcttag gcagattgag ccacaataca ttcaccaagc aatctacaac atggttcaat 60
ccataatcca ggaggagcaa caacaacaac catgtgagtt atgtggatct caacaagcta 120

ctcaaagtgc ggtggcaatc ttgacagcag cacaatacct accatcaatg tgcggcttgt 180
 accactcata ctacccaaat aatccatgca gcagcaatga cattagtggg gtttgcaatt 240
 gaagaattgt gtctacctag ccgttatact cctataacgg tgtaagcaa taaagtacca 300
 tacatt 306

<210> 11660
 <211> 409
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-023-Q1-K1-G9
 <400> 11660

ctaccaagat attatccctc cttgcgcttc ttgcgctttt tgcgagcgca acaaatgcgt 60
 ccattattcc acaatgctca cttgtctcta gttccattat tccacagttc ctcccaccag 120
 ttacttcaat ggccttcgaa caccagctg tgcaagccta taggctacaa caagcgattg 180
 cggcgagcgt cttacaacaa ccaattgccc aattgcaaca acaatccttg gcacatctaa 240
 caatacaaac catcgcaacg caacagcaac aacagttcct accagcactg agccacctag 300
 ccatggtgaa ccctgtcgcc tacttgcaac agcagctgct tgcattccaac ccacttgctc 360
 tagcanacgt agttgcaaac cagcaacaac aacaactgca acagtttct 409

<210> 11661
 <211> 418
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-023-Q1-K1-H10
 <400> 11661

ccaagagtga tggatcatgag gactatggcc tccttgttag tgagaaggca aggaaatag 60
 ccataatcaa ggagcttgat gagccagtta ccttgaagga tgggacagtg gtcctgcagt 120
 ttgaagtga acttcagaat ggccttgaat gcggaggtgc ctacattaag tacatccgcc 180
 ctcaggatgc tggatgggat gccaaaggat ttgataatga gactccatac actattatgt 240
 ttggtccaga taagtgtgga tcaaccaaca aggttcattt catccttaag cacaagaatc 300

ctaagactgg aaagtatggt gagcatcatc tcaaattccc accatctgtc ccatatgaca 360
agctctctca tgtctacacg gctatcttga agccagacaa tgaggcmeta attttggg 418

<210> 11662
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-H11

<400> 11662

caacaagcaa catagaaagt ggaatccagt agctacaata gagcaacaat ggcgaccaag 60
atagtttccc tcttatgct ccttgctctt tctgcatgtg ttgctaacgc gacaattttc 120
cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaatgata 180

gcttcagtat gtgaaaaccc agctcttcaa ccctataggc tccaacaagc aatcgagca 240
agcaacatac ctttatcacc cttgtttcaa caatcgccag ccctatcttt ggggcagtca 300
ttggtacaaa ccatcagggc acagcaactg cagcaactcg tgctacctgt gatcaaccaa 360
gtagctctgg caaaccttcc tccctactct cagcaacaac aatttcttcc a 411

<210> 11663
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-H2

<400> 11663

cacgagaaga gaagtttcac aacttctctc cccatggcac tcatcatcaa gagcacaatc 60
atgcgctgtg ttcttggttc ttggagccat atcttacaca tccgtatatt gcatcggtgc 120
aatcggcacg gaggacaccc ctgctcccaa gccaaaacct gggatgccgt gcttccacgc 180
cggaacctca cagtaccctt gcactactga cgggtgccgc aagttatgcg agcaccaaca 240
ccacaggagc gacatggcct actgtaaaag tatttcttca ggagaatgct gctgccccaa 300
cgaaatgagg atgtggctgt gtgtttgatg acgacaatta ttaaataaaa catgcatgat 360
tg 362

<210> 11664

<211> 460
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-023-Q1-K1-H4

 <400> 11664

```

taccgatccg gagttccaac caagccgtcc gtggaaaacc cagttcttaa accttatagg   60
ctccaacagg caatcgcagc aggcaccgta cgtaataaac cctgggtttca acaatcgcca  120
gccctatctt tgggtgcagtc attggtacaa accatcaggg cacagcagct gcagcaactc  180
gtgctacctg tgatcaacca agtagctctg gcaaaccttt ctccctactc tcagcaacaa  240
caattttctt cattcaacca actgtctaca ttgaaccgtg ctgcttattt gcagcaacaa  300
ctattaccat tcagccagct agctactgcc tactctcagc aacaacaact tcttccattt  360
aaccaattgg ccgcactgaa ccccgctgct tatttgagc agcaaatact actaccattt  420
agccagctag ctgcagcaag ccgtgcttnc ttcttgacac                        460
  
```

<210> 11665
 <211> 186
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-023-Q1-K1-H5

 <400> 11665

```

taatataaca ccacctaaat acaattcact ctctccttat tataacaacga ctcacactac   60
taaaaccttg tcattaccca acttaatacc attccatcac atcctacttt atacagcatt  120
cttaataaca caaacaccca aacctaactc ccttttcaac atttcccca ccacaatctc  180
aatat                                             186
  
```

<210> 11666
 <211> 335
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-023-Q1-K1-H6

 <400> 11666

```

attgagacca actagcaaca tagaaagcac aatagtgtac caacaatggc agccaaaata   60
  
```

ttttgcttcc ttatgctcct tgggtctttct gcaagtgttg ctaccgcaac cattttccca 120
 caatgctcac aagctcctat agcttccctt cttcccccac acctctcacc agcggtgtct 180
 tcaatgtgtg aaaacccaat tgttcaaccc tacaagatcc aacaggcaat cgcaacaggc 240
 atcttaccat tatcaccctt gttccttcaa caaccgtcag ccctattaca gcagttacct 300
 ttggtccatt tgggtggcaca aaacattaag gcaca 335

<210> 11667
 <211> 415
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-023-Q1-K1-G11

<400> 11667
 gctgcaggga acctgcggcg ttggcagcac cccgatcctg ggccagtgcg tcgagtggct 60
 gaggcacagc tgcagcccga cggcgacgcc ctactgctcg cctcagtgcc agtcgttgcg 120
 gcagcagtgt tgccagcagc tcaggcaggt ggagccgcag caccgggtacc aggcgatctt 180
 cggcttggtc ctccagtcca tcttgcagca gcagccgcag agcggccagg tcgcggggct 240
 gttggcggcg cagatagcgc agcaactgac ggcgatgtgc ggcttgcagc agccgactcc 300
 atgcccctac gctgctgccg gcggtgtccc ccaactgaaga aactatgtgc tgtagtatag 360
 ccgctggcta gctagctagt tgagtcattt agcggcgatg attgagtaat aatgt 415

<210> 11668
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-E9

<400> 11668
 attttcagca ttcaaaaaca caccaagcga agcgcactag caacgaccta acaccaatgg 60
 ctaccaagat attagccctc cttgcgcttc ttgccctttt agtgagcgca acaaatgcgt 120
 tcattattcc acagtgtcga cttgctccta gtgccattat tccacagttc ctcccaccag 180
 ttacttcaat gggcttcgaa catccagccg tgcaagccta caggctacaa ctagcgcttg 240

cggcgagcgc cttacaacaa ccaattgccc aattgcaaca acaatccttg gcacatctaa 300
 ccctacaaac cattgcaacg caacaacaac aacaacagtt tctgccatca ctgagccacc 360
 tagccgtggt gaaccctgtc acctacttgc aacagcagct gcttgca 407

<210> 11669
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-F1

<400> 11669

ggagaaggag ctgaagcacc aagagctgta caagaacgag cagtaccgca tgaagctgca 60
 caaatcgaac gagcgggtgc tggcgctcgt caagtcgagc ctggacatcg tgggtggccgt 120
 ggggctcctg cagctggccc cgaagaaggt gacccccgc gtcacgggcg cgtttggtt 180
 cgccagctcc ctcatcgctt gctaccagct gcttccaagc ccaccagcaa agcagagcaa 240
 gtgaagactc cgactccaag cacttggttac caggaaaata atccccgccg ataggtttga 300
 tttggttgcc acatccccctt gtatggcaga ctagactaat atatgtaatc atcatcataa 360
 taatttgata accatgccac tatggatagg tttggtcaa 399

<210> 11670
 <211> 398
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-F10

<400> 11670

ggaggttgag gatcttgagg ctgctggtat tcatgtgatc cagattgatg aggcaggtct 60
 aaggaggagg ctgccactgc gcaagtcaga gcatgcattc tacctggact gggctgtcca 120
 ctctttcaga atcaccaact gcggagtcca ggacaccacc cagatccaca cccatatgtg 180
 ctactccaac ttcaacgaca tcatccactc catcatcgac atggacgcag atgtgatcac 240
 catcgagaac tcccgggtccg acgagaagct actgtccgtg ttccgcgagg gtgtgaagta 300
 cggagctgga atcgggtccag gtgtctacga catccactcg cccaggatcc cctccaccga 360
 ggagatcgcg gaccgcgtca acaagatgct cgccgtgc 398

<210> 11671
<211> 407
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-023-Q1-K1-F12

<400> 11671

agccgttcca gtccaatccg cctcagtcca aatctaatacg ccgggttttag gcagaagggg 60
cgggacgcgg cgaggtttag gcggggtttg ttttgccct tccgtgcat tctgctctcc 120
gcgcgggagg caagtactga cggaagcgaa ggcgaaggcg gaggaggggg tccccggcgg 180
tggaagtga acgcgccgat gcgcaagttt caggactcca tcaaggccct ccaggccgac 240
atcgatcacg ccaatgcgat ggcgtcggaa ttcctgaggg actacgacgg ctcggtcatc 300
cagatgcggg tggcgtaacg cgccgtcgcg catttnttct tgcagtggac cgactgcaag 360
ctcgccggcg cgctcggcct cctcaaggtt atgctataca aggtgtg 407

<210> 11672
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-F2

<400> 11672

aaaaaaaaa aaaaaacaaa aaaaattata ataaaaaaaa acaaaaaaaaa aaaaaaagtg 60
aggttttaaaa aaaaaacaaa aataaaaaaaaa aaaaaataa aaaataaaaa taaaaaaaaa 120
aaaaaaaaa aaataaaaaa aggcaaaaat tttttaaaat tcaaaaattt agggcgcctt 180
ctttttaagg aaaaaacttt tttttagggt accttaaatt aattaacttt tcattttttt 240
aaaaaaattt taattttaaa aacccttttt taaaaacaat tttatttgg 289

<210> 11673
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-F3

<400> 11673

atattattgt tcttagtcat cgcacaagac tcttgtcaac aagaccaaca acaggatgag 60
gactaccgtg catgctgcgc tttgcattgt gcttgtgata atgtcttcaa cactgtcatc 120
ttgcgaggac gatgagaagg tatctatcgc atgtgacaca ggatgcaatg ccgcatctc 180
ccgcctcaaa tgcttctga tggcctattc tgaagggaaa gtgttgggtca gcagcaactg 240
cgaaacgccg accaggtgcg gctgcgtgtt tcgtcacaaa caagatgcag cccttatcgc 300
cggcgacgtt ggcaacaaaa agggatactg atggcaaacg tgtacttttt ggttgaataa 360
tactgctaga attaatatgg gcaccaacga a 391

<210> 11674
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-F4

<400> 11674

cccacgcgtc cggcaacata gaaagcacia tagtgtacca acaatggcag ccaaaatatt 60
ttgtctcctt atgtctcctg gtctttctgc aagtgttgc accgcaacca tttcccaca 120
atgtcacaaa gtctctatag ctctccttct tccccatac ctctcaccag cgggtgtctt 180
aatgtgtgaa aacccaattg ttcaacccta caggatcaa caggcaatcg caacaggcat 240
cttaccatta tcacccttgt tccttcaaca accgtcagcc ctattacagc agttaccttt 300
ggtcattttg gtggcacaaa acatcaaggc acaacaacta caacaacttg tgctagcaaa 360
ccttgetgca tactctcagc aacatcagtt tctttcattc aaccaactgg ctgcattgaa 420
ctctgctg 428

<210> 11675
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-F5

<400> 11675

agaacatgca aaactaccag aacagagatg ggcctcctgc ccaagggttc aatggccccc 60
cacctccacc tggccagaac cagatgccat cccaccatag tcagggaac atgtctccgc 120

aaccaccaca tgctgggtggg ggccaaccaa actatcagcc ccaaattgcaa aaccacacaga 180
 cgggctacaa ccctggcggt gctcctcact accagcaagg tgctgctcct ggctaccaag 240
 gtggacctcc ggggtatcaa ggtgggttacc aagggaaccc aggcctgcc taccaagggtg 300
 gtaacactgg ttatcaagggt ggcaaccac caccttcta ccaaggaagc aaccaccac 360
 cttcttacca gggaagcagc ccaccaaggc caccaccttc ct 402

<210> 11676
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-F6

<400> 11676

cccacgcgtc cgcggacgcg tgggccaagg gtggcgctt attagctgca tctgggtcca 60
 tgctggccta atccatttgg ttgtgaacat gctaagtttg ctgtttattg gaatccgcct 120
 tgagcagcaa tttggatttg ttgcattgg tgccatatac ctactgtctg gttttggtgg 180
 cagcgtgttg tctgcactct tcctacggaa cagctacatc tccgttgggtg cttctggagc 240
 tctatttggc ctgctgggat ccatgctttc tgaactactc atgaactgga ctatatactc 300
 caacaaggca gcagctataa taacactggt gtttattatt gcactcaatt tggctattgg 360
 gatactacct cacgttgaca actttgctca cattgggtgga ttgcgcacgg gtttcctctt 420
 gggt 424

<210> 11677
 <211> 377
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-F7

<400> 11677

attgctgcc tttagccaac ttgctttgac gaatcctacc accttattgc agcagcccac 60
 cattgggtgt gccatcttct agatttttta tgctttatac tgtaataata aagttctcat 120
 actgatatgt gcaacttctc agtaataaaa gattagagat ctatatttta agttcaaaaa 180
 aaaaaaaaa aataaaaaaa aatcaaagta aaaaaaaaa acaataaaaa aaataacaaa 240

aaaaaactaa aaaaaataaa aaaaaattac tttaggaaaa aaaaaaaagg ggtgcccttt 300
 taagaggacc aagttttata acccgggctt tgcaacgtaa agattttttt tagggccccc 360
 taaattcaaa tcacggg 377

<210> 11678
 <211> 417
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-023-Q1-K1-F8
 <400> 11678

cgcgaggagg cgtgtgaggc cagcggcctt gcgatgacag caccagcga caaggggaag 60
 aaggccaaga ctgatgccga cggcggcgag gagaacgaac agatcgacgg cgtcctcgtc 120
 ctctccatcg agaagctcca ggagatacag gacgagctcg agaaggtaaa tgaggaagca 180
 agtgacaagg ttatggaggt ggagcagaaa tacagtgaga tccgcagacc tgtctatctc 240
 aagaggggtg acattatcaa gaccatcccg gacttttggc tcacagcgtt tatgagccat 300
 cctctattaa gtgagcttct gactgaagag gaccagaaga tattcaagta cttagactcc 360
 attgatgtgg atgattctga tgttaaggca agatactcca ttcactnctaa cttctct 417

<210> 11679
 <211> 415
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-023-Q1-K1-F9
 <400> 11679

ctttgcccgg gctcattccc aagccctact gggcaacaag ccacagtcga agtcaggatg 60
 agggaagggc atgcagtcaa tatccacatg ttctgtgcgc gtaggccagg catcctgctg 120
 tcgacaatga cggccctcga cagcctaggc ctcgacatcg agcaagcggc catcagctgc 180
 ttcaatggct ttgcgatgga cgtgttccga gctgagcagt gcgcggatgg tcctggaatg 240
 gtgcctgaag aaattaaggc cgtgctgatg cacaccgncg gccttcacaa cgcaatgtag 300
 ccggtccgaa nacggggccac cgncaggatg acgacgatcc tncctnctttc tactaagggc 360

ttcgggttcgg aagcggcata agattaagct gtgggtgtca ttggttttct gggga 415

<210> 11680
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-G10

<400> 11680

cccacgcgtc cgcagaaaca caccaagcga agcacattag caacaaccta acaacagtgg 60

ctaccaagat attatccctc cttgcgcttc ttgcgctttt tgcgagcgca acaaatgcgt 120

tcattattcc acaatgctca cttgctccaa gttccattat tacacagttc ctcccaccag 180

ttacttcaat gggcttcgaa caccagctg tgcaagccta taggctacaa caagcaattg 240

cggcgagcgt cttacaacaa ccaatttccc agttgcaaca acaattcctt ggcacatcta 300

acattacaaa ccatcgcaac gcaacagcaa caacaattcc taccagcact gagccaccta 360

gccatggtga accctgccgc ctacttgcaa cagcagttgc ttgcatcaaa ccca 414

<210> 11681
<211> 410
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-023-Q1-K1-E8

<400> 11681

cccacgcgtc cgcggtcatg gggcagaacc ttgccctcaa cattgcagag aaagggttcc 60

ccatctctgt gtacaacagg acaacctcca aggtggacga gaccgtgcag cgtgccaagg 120

cagaaggaaa cttccccgtc tacggcttcc atgacccgc gtcctttgtg aagtccattc 180

agaagccacg ggtggtgatc atgctcgtca aggccggcgc gccagttgac cagaccatcg 240

cgacgctcgc agctcacttg gagcagggcg actgcatcat cgatgggggg aacgagtgg 300

acgagaacac ggagaggagg gagaaggcca tggaggagcg cggcctnctg tatcttggca 360

tgggtgtctc tggaggaaag gaggggtgcc gcaacggccc gtccttgatg 410

<210> 11682

<211> 359
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-023-Q1-K1-D12

 <400> 11682

 ccacaacagc gaaggagaaa gcagaccaac ctagccaccc agggagaaaag aggccaataa 60
 ggaggggaga gtgtcgtcat ggcttccatt gtcgcttcca ggagggccgt tcctctagtt 120
 cgcgctctgg agaagctcat cgcagcgctc tacgctcccg ggactggctc cgccctcatg 180
 ccggtggcag tcgccggggt gcctgcgcgg ctacaacacc ggcgctccgc tccgacgcta 240
 cgaaggggcc gagtcggaag acgatagcgt ccgcgagtac gatgggcggc acggcggccg 300
 ggactacgct gtgcccagcc tgttctcaga tattttccgt gatccgctta gtgcgccgc 359

<210> 11683
 <211> 261
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-023-Q1-K1-D3

 <400> 11683

 gcaacgcatt cggggacacc tgggcgttca catgtgaaaa caactgcaaa acaaacggag 60
 agtgcccaga atgttgccagg tctatcacac gacaatctat taacctggac tgcagtttta 120
 gggactccat gacctttcac attcccatac gagtgccagt tgtactatag tgcaagctaa 180
 atgcaatgaa cttgccgaat gttatcaagc aaccgactga gaaaacactg cagttgccta 240
 ctttattgcc tacgaaggat a 261

<210> 11684
 <211> 368
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-023-Q1-K1-D5

 <400> 11684

 ctccccctac gcagcaagga tcgagaaaag gaggggcacg ttgaattgaa gaggaagaga 60
 ggatcaagga gatgttcttc cccatctcct cttgaagatt tcttggggaa accctaggtg 120

gctacactcc agatcatgtc tagtacattt cttcttcttc gatgaagggtg cttgttgctc 180
atcaagggga gtgggaagta gcagcacatc caccttcatt ctcataataa tgctgcccag 240
acgcagccat gatttaatta gaaacttctt gacaaaggat gtttgttttt aactagtcgt 300
gcgcactgat taattcagtt catgttggtt tggttgctt cccattgcta gcagattatt 360
aatgtctt 368

<210> 11685
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-D6

<400> 11685

atatctttta gtaacctttc aataggcgtc cccaagaac tagtaaacad ggcaaaactg 60
ttgagcctgt tcttagccct ctcctttgta gcagctatgt ttgccatagg ctctcatgct 120
gatggagact gtgagaatga cctccaaagc ctgataagt actgcaagac atacgtgatg 180
ttcccagcta atccaaaggt cctccttcg gatgcttgc gtggtgtcat caagaaggca 240
aacgtttctt gcttgtgctc caaggtcacc aaagaaactg agaagggtgt gtgcatggag 300
aaggttgtgt atgttgctga gcagtgtgag aggccatttg agcatggctt ccagtgcgga 360
agctacaagg ttccagcaaa ctgatgatat cgcaagaggg aagcgcttga cgtagtcttt 420

<210> 11686
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-D7

<400> 11686

aaaaaaaaa aaaaaaaaaa aaaaaataaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
agacaaacca tataaaagat accaaactta catacacata catgcgacgt cctatctttt 120
ggcatcctgg ctccctaact catttcactg gccgtctgtt tacaacttgg ggcccgtaaa 180
tccccttccc tgcccact taatcacctt cctgcccgtc caacttttgc ctgctcccat 240
tttaaccac tgcccacac tgctcgtcct tccaacggt ttctcagcct taatgcccac 300

tgggaccccc cttgcaaccg gtcattcagc ctgactgctg attgggtcac gccctgtgtg 360
gccgcttcac ttgc 374

<210> 11687
<211> 425
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-023-Q1-K1-D8

<400> 11687

aatgtttttc tccctcaaaa ataaagcaat gggccatgga tgatttggca cagactatgt 60
catggctgga cagccaagaa gagaagccag agccaagtga actgaaggct atagcctctg 120
aaggggtaat cacttgtctg caagatgcca tagaatccct cgagcaaggc aatgatatca 180
agggagttgc agagcagtgg agcttcgtcc cccatgttgt caacgagctg ttaaaactag 240
atggaggcgg aaaaggtgcg gctctgccc aagagcagct acgtcaacta gcaggcaagt 300
gcaagaagat ctaccaggcc gagtttgctc gcgcggacat gggcgacaag aacaagggta 360
ggcatcaaaa tgaccacat gtgaccgagc accgcaggaa gaccaatacc anatcagagg 420
atgac 425

<210> 11688
<211> 418
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-023-Q1-K1-D9

<400> 11688

gtgatccggc gctgagaaga gatggctaag atcgccgcag ccgccgcggc ggcggcgggc 60
ctgtgcttcg cgcccttggg ggccgtggcc gtctgccaag gcgaggtcga gcggcagagg 120
ctcagggacc tgcagtgtg gcaggaggtc caggagagcc cgctcgacgc gtgccgccag 180
gtcctcgacc ggcagctaac cggcggcggc gtcggcggcc cgttcgggtg gggcaccggg 240
ctccggatgc ggtgctgcca gcagcttcag gacgtgagcc gcgagtgccg ctgcgccgnc 300
atccggagca tggtcagggg ctacgaggag gccatgccgn ctctggagaa aggcttgtgg 360

ccatatnggc cggcagcagc agccgcccgc gcagggagga ggaggaggac aggggggc 418

<210> 11689
<211> 402
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-023-Q1-K1-E12

<400> 11689

aataaaaaaa gcactgccaa atctcccacc aatgaaagtt gctagagatg gcacaatcat 60

ggagtgggca caagactttc aggatcctga gattcatcac agacatgtgt ctacttgtt 120

tggtctttat cctggacata ctatgtcact tgaggaaaca cctgacctct gcagagctgt 180

tgccaatagt ctttataaaa gaggtgacga aggccaggc tggtctactt catggaaaat 240

ggtcctatgg gctcgcttc acaacagtga ccatgcatac aaaatgatac tgcagctaata 300

cactttggtg gatccagaac atgaggtttc aagagaagga ggcctataca gcaatctgtt 360

cactgcacat ncacctttcc aaatngatgc aaattttggg tt 402

<210> 11690
<211> 240
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-E2

<400> 11690

ccatattcta aggcacttgt taccactact gatgccattg actaccatta actcatctat 60

gcaattctga ttgaagcaac aatggttctc caacttgcta tctgtgccga ccctaattgt 120

acagcaacta ttcacctcac cgatttatcc cagccatatg ctacttatta tcccacgatt 180

tatgccacat ctgacaataa ttccaattcc aaaaattaa ccatctataa taataccac 240

<210> 11691
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-E3

<400> 11691

gaccaacaag caacatagaa agtgggaatac agtagcaaca atagagcaac aatggcgggcc 60
aagatatttt ccatccttat gctccttgct ctttctgcat gtgttgctaa cgcgaccatt 120
tttctcaat actcacaagc tcctatagct gcccttcttc ccccatacct tccatcaatg 180
accgcttcag tatgtgaaaa cccagccctt caaccctaca ggctccaaca agcaatcgca 240
acaagcaact tacctttatt acccctgttc tttcaacaat cgccagccct atctttggtg 300
cagtcattgg taaaaacat cagggcacia cagctgcagc aactcgtgct accagtgatc 360
agccaagtag ctctggcaaa cctttctccc tactctcagc aac 403

<210> 11692
<211> 415
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-023-Q1-K1-E4

<400> 11692
gcactacccg tgccatggca cacagggctg ttgatgctgt attaggtccc cggaccattc 60
agcatgagac tggtgcctca gaagctgctg ctgctgcccc tgcccctcca gtgatgaatg 120
ctgatgcttg cagcatccat tctaaggctt tccaagattg tctcaacaac tatggcagcg 180
agatcagcaa ttgccagttc tacctagaca tgctgaacga gtgccgcccgt ggtggtgtgt 240
ctgcctaaac tgccctctggg attattcatg gattntcttt tcgtgatgtt atctcattaa 300
ataagatacc gtgaaacttt tgtctccaca gcttgaagct gaacttcttg ggattaatac 360
atcttggtat cctatgctgt tggagcagac ttttgtctct ggatcatana tattt 415

<210> 11693
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-E5

<400> 11693
cccacgcgtc cgcggacgcg tgggatcctg aatggataga tttccaaga ggtccgcaaa 60
gacttccaag tggttaagttt attccaggga ataacaacag ttatgacaaa tgcctcga 120

gatttgacct gggatgatgca gactatctta ggtatcatgg tatgcaagag tttgatcagg 180
 caatgcaaca tcttgagcaa aaatatgaat tcatgacatc tgatcaccag tatatttccc 240
 ggaaacatga ggaggataag gtgattgtgt tcgaaaaggg agatttggtta tttgtgttca 300
 acttccactg caacaacagc tattttgact accgtattgg ttgtcgaaag cctgggggtgt 360
 ataaggtggt cttggactcc gacgctggac tatttggtgg atttagcaag atccatcacg 420
 c 421

<210> 11694
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-E6

<400> 11694
 gtcaactagc catggtgaac cctgccgcct acctacaaca gcaacaactg ctttcatcta 60
 gcccgcctgc tgtggccaat gcacctacat acctgcaaca agaattgttg caacagattg 120
 taccagctct aactcagcta gctgtggcaa accctgttgc ctacttgcaa cagctgcttc 180
 cattcaacca actaactatg tcgaactctg ttgcgtacct acaacagcga caacagttac 240
 ttaatccatt ggcagtggct aaccattgg tcgctgcctt cctacagcag caacaattgc 300
 tgccatacaa ccggttctct ttgatgaatc ctgtcttgtc gaggcagcaa cccatcgttg 360
 gaagtgccat ctttttagatt acatatgaga tgtactcgat aatggtgccc tcataccggc 420
 atgtg 425

<210> 11695
 <211> 289
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-B5

<400> 11695
 catgattttt atagatccat ttttcttatt cctatcacta aacttctaag gggctctagt 60
 acatgtatat acaaatacaa atgttaaaat ctgataatac atattaatag ttaaagtccg 120
 aactttaaca cctcacagtg taactactag tccacctaac ctactattca aatagaaatg 180

cgtgtctttt attcatatta ttatgccagt tgacacaaat catatattct taaccgggtct 240
attgaattta actactttta atataagata gaactgtatt atattactt 289

<210> 11696
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-B6

<400> 11696

caaaagcaca ctctgttcgg cttgccttgt cctttttcct tgccatatgg ctaccaagat 60
ggctctgtgt cgctttgtag ccctcgcggc tgtcgcttg ctctccggc ctggcccggc 120
ccgtcaggct caaccgaagg ttttcgggtt ggtccaacaa cccggccccg acttggtagc 180

gcgagccac eggcgctgga agcgacggtg gtgcatgagg gtaccagaac gccgtcgacc 240
agccgcccgtt ctgctccatg atcgccgccc gcagtccttc catcttccag aacggcaagg 300
gctgccccgc ctgctatcag gtgaaatgca cccggcacgc gtcgtgctcc ggcagcccgg 360
tgaccgtggt cctaaccgac gaggccccg gggcgcggtg cctggacgag cc 412

<210> 11697
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-B7

<400> 11697

catctcaaga gcgactagag agaggaagag aacaagcgat aagctcatct cgcacgcaag 60
atgcgggctc caaggggagg aggcggctgc cgcggcgccc aggagcatgt ggagctgac 120
cctggcatcc ccgacgacgt ggccgtggac tgccctggcg gcgtccccca cgctccccc 180
cgcgcgatgc gccgggtctg ccgcggctgg cggagcgccc ccgcggcgcc ggccttcgag 240
tcggcgcgcg ccgcggcggg cgccaacgag gacctcgtgt acctgatgca gttcgggaac 300
ccgtccggcg acgacggggc caaggacggc gacgacgggc ccggcagcac cccggcgtag 360
ggcgtggcgg tgtacaacgt gac 383

<210> 11698

<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-B9

<400> 11698

ccctccgagc atcctagtga ctcccatggc tccggccatg tccggcgcagt tcacaagaat 60
aaccttcagc aacctgtttg tccgtcgggc tggcccaggc agcacggagc tgaccgtgga 120
gggaaggcca tccgaccagc tgggcaggag aaacctcact gacagccccg tatttgacgg 180
ccgtggccct gacgccagcc tctgtgctcg cgtacaggga gtcgctaccc agatgggcca 240
cgtgcgccag ttgtacaccg tctgtgtcca ggagaggccg ctcaagggtc ccacgctcgt 300
caccgaaggc gcgatgacag aagggtcaga cgagtgggag atctacggtg gaactggagt 360

gttcgc 366

<210> 11699
<211> 312
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-023-Q1-K1-C10

<400> 11699

cggtcccacc gcaggcaaag cttttcaggc cgcccaaccg aacaaccgaa aaaagggcgc 60
cgcggnccgcg accaaaagcc gatggatccg aagatgacag aggtgaccca gatgttcgcc 120
cgcttcaagg cggcctacac ccgcaacgac ctgcagcctt gggtcaccct cctctcacia 180
cttaaggtcc atcttaccaa attccccaac ctttcggcct catttgagcc gacacctaaa 240
gccctggagg agcttaaact tgcaaggac atttattagc cttcctggtg ttttgagtgt 300
gaaacttgag ga 312

<210> 11700
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-C11

<400> 11700

ccttaacaaa ggggcaaatag tgtcacaact gacagctgat ggcaggagcg caattggtat 60
 ttgtcggagg ttaacaagag caaaagacta caatacaaag atggagcagg gtcaagaatc 120
 aaataaagat aggctgtgta tagatattct agagagggag atgatgcgga atcctatggc 180
 ggtggaagat gccgtcacct cgcctttgtt ggcagatgat cttcacatga agcttctcta 240
 cctggaaaac agagttgcat ttgctagatt gttctttcct gctgaagcca aggtcgccat 300
 gcaaatacga caagcagaca ccacagaaga attcggcggg atagttgcag ttgcagcaag 360
 cacttccggt aaactgaggg aggtggacct taatgagacg ccagtgcacac aaaaca 416

<210> 11701
 <211> 334
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-023-Q1-K1-C12

<400> 11701

cagagttgat gaagtactca caatggaacc aaacaagggt gatgatattt cattgaagcg 60
 attgccatta acgtttcagt gtttagatac tggagggttg taccttcttg atgaaggctt 120
 cactttccta gtgtgggttag gtaagatgct cccgnctgaa cttgtgaaca acattctttg 180
 agtgagcttg gcaaactttc ctgacctatc aaagattgta ttgagagagt gtgacaatga 240
 attgtcaaga aatttcatga aattactaag atccctgcgc gagaaggatc cttcctatca 300
 ccagctatgc cgtgtggtgc gacagggtga acag 334

<210> 11702
 <211> 367
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-C2

<400> 11702

gaggacgaga aggccaacca cgtgggtccct tcttcccgca ccaaaaaccc gccctcgccg 60
 ccgcagactg gcgaagattc cgaggcttcc gacgaagaag aggataggga ggcggacgac 120
 gagatgccgc agacgaagcc cgctccaaat caagaggtgg aggctaaggg tgcaaagcgg 180

ccgagcgcgc cgttccagcg cacctggctg attgacgacg acttccgcat cctggaggcc 240
ctcgctgcgc aacgcctgga gcacggcgcg ctgcctcaaa cggacgtgct ggccgacgcc 300
ctcgctggca agctcgacaa tagtggctgc agcctctccg atctcaagag gaaggtgaag 360
agtttgc 367

<210> 11703
<211> 157
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-023-Q1-K1-C3
<400> 11703

gcagctctag tggctgacga gatcgcgagg caggctgaat tcttctcctt tggaacgaac 60
gacctcacgc agatgacctt tggctacagc agggatgatg tggggaagtt catccccatt 120
tatctggctc agggcattct tcagcatgac cccttcg 157

<210> 11704
<211> 411
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3059-023-Q1-K1-C4
<400> 11704

aaattttgct ctggctcana gttgaaagag atgggtggga gtgggattnt tgctgagaag 60
agtgaaaatg gtgatgcaga ggcttcaaat cctgctaaca agacttcctt gaggatgtac 120
cagcaaactg tgactggaat aagccagatt tcatttagcg ctgatggaag tgtttcacca 180
aagaagccat cgtcgatacc tgaggtggct aagcagcgag agcttagtgg caccctggaa 240
gatgctgatg ctaaaatcaa taagcagctt tctgaagcca agaccaagga gcttagtggg 300
agtgacatct ttggtccgcc ttctgagatt ccagcgaggc cattggctgc tcgtaacatg 360
gagctacaag gaaatgtcga tttttcactt tcacagcgaa gcgtncacac a 411

<210> 11705
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-C5

<400> 11705

cccacgcgtc cgccacgcg tccgcgcaaa ttgcaccaag aaatccatcg agaggccgtc 60
gacaggggaa ttaatggcgt cgtcgtctag cagcagccac cgccgcctca tctcgcagc 120
cgccgtcctg ctctccgtgc tcgcggctgc cagcgcacgc gccgggacct cctgcgtgcc 180
ggggtggggc atcccgcaaca acccgctccc gagctgccgc tggtagctga ccagccggac 240
ctgcggcatc gggccgcgcc tcccgtggcc ggagctgaag aggagatgct gccgggagct 300
ggcggacatc ccggcgctact gccggtgcac ggcgctgagc atcctcatgg acggcgcgat 360
cccgccgggc ccggacgcgc agc 383

<210> 11706

<211> 415

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-023-Q1-K1-C6

<400> 11706

cagcaagcaa cataccttta tcacccttgt ttcaacaatc gccagcccta tctttggtgc 60
agtcattggt acaaaccatc agggcacagc agctgcagca actcgtgcta cctgtgatca 120
accaagtagc tctggcaaac ctttctccct actctcagca acaacaattt cttccattca 180
accaactgtc tacattgaac cgtgctgctt atttgcagca acaactatta ccattcagcc 240
agctagctac tgctactct cagcaacaac aacttcttcc atttaaccaa ttggccgcac 300
tgaacccgcg tgcttatttg cagcagcaaa tactactacc atttagccag ctagctgcag 360
caagccgtgc ttccttcttg acacagcaac agttgctgcc tntctaccag cagtt 415

<210> 11707

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-C7

<400> 11707

cggacgcgtg gggtcagcatg ttcagtttcg ctctccccag agagaaccaa aatttagcaa 60
 ccatccacca caagttgggt atggtgccca attgcctcag tcaggatata gctttgagct 120
 ccaacaagaa caggttggat ttggaaatca agtagcacia cctgcacatg tggcttcaag 180
 acaaccctca tatgacaccc gctggagctc gagagattat ggatcaaccc aagggaact 240
 gggatatggt ggtcctcaag cacagtcata tgaatctcag ttaccacatc accaggggaag 300
 ttttggtatg ccacatgtcc aaaataacaa tggcttctat cgatacaacc ctggatattg 360
 cccatct 367

<210> 11708
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-C9

<400> 11708

caactaacca gatgccaat gggatcttac agttcaagag cgagcaatag taacatgtat 60
 ttggatgacg ttcttttggc aaatacaaga tgcttgaat tcgtacagcc atatggcatc 120
 aaaagtctct taaagcctga taatttcaaa tggatcagtt ttgcagtttt tccccgtaga 180
 tacacaggat atatagctga tacggcctca tcgtttctag tttgtacatg ctattaagtt 240
 ggggcatgag ggatgcaata ctagctaggt gaggttactt atatgtggtt atgggtgttct 300
 atagatggat cgatggtata catgttctga ttttgttccc aacacccgac aagattttga 360
 atgtatttgt acagatgttt ttgagttaca ttttgctttt tgtaactttg aagatg 416

<210> 11709
 <211> 383
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-023-Q1-K1-D1

<400> 11709

nccacgcgtc cgcctttctc cctactttca gcaacaacaa tttcttccat tcaaccaact 60
 gtctacactg aaccctgctg cttatttgca gcaacaacta ttaccattta gccagctagc 120
 tactgcctac tctcagcaac aacaacttct tccatttaac caattggccg cactgaaccc 180

cgctgcttat ttgcagcagc aaatactact accatttagc cagctagctg cagcaaaccg 240
 tgcttccttc ttgacacagc aacagttgct gcctttctac cagcagtttg cggctaaccc 300
 cgcaaccctc ttacaactac aacaattggt gccctttgtc caacttgctt tgacagaccc 360
 agcggccttc taccaacaac aca 383

<210> 11710
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-023-Q1-K1-B4
 <400> 11710

aaactgttga gcctgttcta agccctttcc tttgtagcag ctatgtttgc cataggctct 60
 catgctgatg gagactgtga gaatgacctc caaagcctga taagtgactg caagacatac 120
 gtgatgttcc cagctaatacc aaaggctcct ccttcggatg cttgctgtgg tgtcatcaag 180
 aaggcaaacg tttcttgctt gtgctccaag gtcaccaaag aaactgagaa ggggtgtgtgc 240
 atggagaagg ttgggtatgt tgctgaacaa tgtaagaagg catttgagca tggcttccaa 300
 tgcggaagct aacaggttcc agcanactga tgatatcaca ngagggaagc gcttgacgta 360
 gtcttttagat ttcaattggt gcagccgatc aaccttctta gggttgtata atatgaagtc 420
 aatgttg 427

<210> 11711
 <211> 323
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-022-Q1-K1-H1
 <400> 11711

gtggaaaccc ctttagtctt gagggaaaaa aaataaaggg agaagctctc ctgagaagca 60
 tatagcacca gcggaacacg gtaacggcgg aagcaaacia ctagaaattc cccagaccag 120
 ttctttgcgt gcggttgatc tcgtcagatg cccggacatg gttactcaat ccgccatcga 180
 attcgatggc agacaacgcc gggaataata tccgcaacgc caagctgaat cttcttggag 240

atgtgagcgc tggcaaatct agcttggatc ttcggtttgt taaaggacag ttgttgaat 300
tccaggaatc aacaattgga gca 323

<210> 11712
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-H12

<400> 11712

ggaaccagga ctcgaagcag aatttgctac gtttgacttg aagagtttct gtcacattgg 60
cattgactct tcgggcaaca gggtcttcag ctatggacct tcgaaatatg caaacataca 120
gtaagcaaat ggtgctacct tcttggctat ctgaggaaga tgtcagttac cttgcaagtg 180

tgtactcaaa aactggattt gctggtggag taaattacta tcgctgcttg gacctgaact 240
gggaactgat ggcgccatgg acaggagcaa aggtgcaagt tccaaccaag ttcacgttg 300
gggacggtga cctggcgtac catcaccttg gagtgaagag gtacatccac aagggcgggt 360
tcaagaggga cgtgcccatg cttgaggaag tgggtggtcat caagggcgct gggca 415

<210> 11713
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-H3

<400> 11713

atcgaagatg ccgttgacgg cgccatcagc tggctggaca gttaccagct ggctgaggtg 60
gaggagttct atgacaagat gaaggagctt gaggggatct gcaaccccat catcgctaata 120
atgtaccagg gcgagggcgc ggtcatggag cgctgatatt gatatatgat ttgttgctcc 180
agatggtagt agcagttctg gttccaatat cgaggaggag gattaagtag gttagtgttc 240
gagggtttggt ttagggaggt gtgaagagcc taaactctga tgggtgtttg tgagggtgtgg 300
tcgcaatagc tgcggcctgt ggt 323

<210> 11714
<211> 334
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-H5

<400> 11714

acacaaaagg tggggtatgg ataagattat agatggatgg tgacacggca cagcagggca 60

catggctagc ctgctagcgt ggggcaccca cacaacacaa cacactgctc gccagaagcg 120

ccccaggagg ccagtggagg acacggcgcc gacatgagcc atcatcatca tctcagactc 180

agagcatgcc atggcacgca actgactgac tgactcggaa cacacacagc gacgccgcta 240

tactttatta agctttataa ttagctagct tcttgccggc ggcttgcagg gtggagcacc 300

tagctcactt gccgcaagtg caggggtcgc actg 334

<210> 11715

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-H9

<400> 11715

cgttcgtcga tgctccatt ccacgtcaga ttcagtatca tcactttctc gggggtgggg 60

accaatatgt gagcccttct tatagctcct tgctcttatg tgtatgtact tgctaattcg 120

acagttgtct ctcatgtctc acagactacc aactgggtcca caacttctca tatacctacc 180

atcaatgatc tccattacaa tatgataacc catctgtaca cgcatatatg 230

<210> 11716

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-A1

<400> 11716

caacactatt atttcaaaag gatccttggc tgggtgctggc tgggatgtat tccgcaggca 60

ggatcttcca aagcttaatg aatatctagc tgttcacggg gaagattgtg cagctagatg 120

tcaagcagtg tcttctgtta agtatcctat ttatgatcaa actgtgtacc ttaacgatta 180

tcataagaag gtgttgaagg atcaatatgg aattgaaccc ttcacattcc accaacatat 240

tggtgaggct gttttcattc cagctgggtg tcctttccaa ttgaaaaacc ttcagtccac 300
 ggttcaattg gctctcaatt ttttgtcacc tgagagtttg ccagagtcag tccggctgtc 360
 ccaag 365

<210> 11717
 <211> 441
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-023-Q1-K1-A11

<400> 11717

taccggtctc ggaggttcga cccacgcgta cgcgcccggtg gtagctcggc ccaaattccg 60
~~ttcttcgctg ctcttgatggc gagaatgcag gaccttgtgc gaaggactgc aagctggcta~~ 120
 atcttgtctg cttggaggaa gttggatgct atcgaggaga aggatggagt gcttgatgag 180
 taagacgggt ttctgggtgc gatttgcttc tgagtttttt tctttntata tcgttgcgat 240
 ctctggttg tcgtttgggt agcaggcaag ccaggctatt agtccgaaga atgtcgtcta 300
 taaacatgtg ttcttacgtt gccacatgct gagtcaatct gtatacagct agctctaggt 360
 ggtcagctgc gtctaccaca atgagcatac atgtatggat aaatcttctg tgaaagcatt 420
 cgatgaataa gggttggttt c 441

<210> 11718
 <211> 266
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-A12

<400> 11718

ggatcacgta tgaatggcca gctcccatat ctgaactagt ctctatcatc atgcaatgca 60
 catcagcaaa gcggcagagc gtacagagga tcgtagaaca gaacagcatg aagacggtca 120
 tcgtctcct cagtgcccta gctctgtcag ctgccagctc ctctgcaatg cagatgccct 180
 gccctgcac ggggctgcaa ggcttgagc gcgctggcgc tcggctgacc acgatgatgg 240
 gcgcctgctg gctgtacccc tacgcg 266

<210> 11719
<211> 366
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-023-Q1-K1-A3

<400> 11719

cgaagtcccg cagggcgtaa ccgtgggttcg ctgagatcac tgtctccgag cctaggaagc 60
acgcggagcc cgcgactgga gccgtgggagc tcattcccgg ctcgccagc tacgtctcct 120
acctcatcgc cactcgggtg cccgacggcg gcgagttccg cgtgcgtcgg cgattccgtg 180
acgtcgtggc gtcgcccagc cgcctctcgg agaccaccg cggcctcttt gtaccggcgc 240
ggcccacaaa gagcatcgtc gagggccagg tcatgcagcg gcacgacttc gtgaaccagc 300
ggtgcgtcac gtcacagcgc tacctccgac gntcgcgcgc gcatcccgtc gtcggccaca 360
accca 366

<210> 11720
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-A8

<400> 11720

cccacgcgtc cgcccacgag tccgcccacg cgtccgggca agccaagcgt agtcatgttc 60
gttggctctg aaggttctgg taaaactact acttgtaaa aatattgcta ttatcatcag 120
aagaaaggat tcaaaccagc actggtttgt gctgatacat ttagggctgg tgcttttgat 180
cagttaaagc aaaatgcaac gaaggccaag attccctttt atggaagcta catggaatct 240
gatccagtga aaattgctgt tgaagggtg gagaggttca agaaagaaaa ctgtgatctc 300
atcattgtgg acacaagtgg aaggcacaaa caagaagcag cactctttga agaaatgcgg 360
caagtttcgg aagcaacaaa accagacctg gtgatttttg tgatggacag tagtattggt 420
caggct 426

<210> 11721
<211> 344
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-023-Q1-K1-A9

<400> 11721

```

cccacgcgtc ccggcgaatc ggaccggaag gaaaccagga aggccctgag gcaagcgggg 60
gaccaaagaa gaagatgaag gtccgtgcgg cggatgaagcg cctgtgccgg ttctgcaagg 120
tggtgaatcg ccgggggaatc gtcttcgtcc aatgcacgga caacgccaaag cacaagcagc 180
gccagagctt ctacaccatc gccgaaacag ccgtcgactc gtgcgttcac ctgccttcga 240
cgncggccgc tagcgggtttc cgcttcgcc gcagcgttcg cagaggcttt caaagtggcg 300
agacatgaga tgtctatgaa gttcaattgg cggctgggtt taac 344

```

<210> 11722

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-B10

<400> 11722

```

cggacgcgtg ggcggacgcg tgggcttgac aatgacactt catggatgat gcttgctagc 60
tctggaattg gtgtttgcat tgagttttgg aagatcggaa aggcgatgca tattgaagtc 120
gatagaagtg gaaaaattcc catgttgagg ttccgagatc gtgaatcata tgcacagaat 180
aagaccaaag agtccgatgc tattgcaatg aagtacctca cctatggcct ctttcctcct 240
ggggatccgg ttcttctatc tattcactaa aggtttgaaa gcacaagaac ttggacttat 300
ggatactttc ttctaattgac aagttggggg aacatgtttg gttccatcat gatgtgcccc 360
caattaatta tcaactacaa gctgaagtct ggtgctc 397

```

<210> 11723

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-B11

<400> 11723

```

cgcagccgtc tgatgacctc atatcaaggc tggtagccaa ctccaacctg caaaatcctt 60

```

gccgaagttg tgggtgcttc ctgcgcgacg ctttcgaacc gtttttatta tgtcgccatt 120
 ttctttccct gtgccaccac cctgatgaat gaagaaggcc tgagctagge gaacatctgc 180
 aggctgcagc agtatgccaa atcattatca ttaccgttac cattaccaat tggagattgc 240
 cgtaaatttc cgcgattatg ggaactcatt tacctgatta tctgatacgt ttgaaattaa 300
 aggtccgcca ttagaatg 318

<210> 11724
 <211> 400
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-023-Q1-K1-B3

<400> 11724
 cggacccgtg ggctgtttta atccacggtg ctaaagtta gcactacact tttaataaac 60
 tttagtacat gtaaattcaa acacgagtgt taaaagggtgc taaaagatgt taaaagtga 120
 gtgccgaagt ttagcacctg tcagtgtttg gaccagtgga cctaaccaac tagtgaaata 180
 gtgtcgcgtg tcttgatcc agatggtgat gcgagttgac acaaatgatt taccctggtt 240
 cgggctatga agggccctac ttccagcaga ggaaggatgt ggattatatt actcgcacca 300
 aaagtgtca cagtaggggt tacaagcacg acgggagagg gtaggaccct aagtcctga 360
 gagtgattga gtcaagtgcc aataccgtat gagagagaat 400

<210> 11725
 <211> 307
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-022-Q1-K1-G9

<400> 11725
 cggacacctg agccgaatcc tgcacgagac acttgggaaa acaacaaaca tgggagacgg 60
 tcataatatg tggaaccatc aagaagggtg tcacatctaa agtatccatc ttgctgctgg 120
 tgcttatcag agttactcaa gaggcctcgt cattgccaaa gtcgatcatt tggcagcacc 180
 tgaaccgta cttcaaaggg aacaccatga accagcacia ctgaatggaa ttgtacctgc 240
 atcagcttta cctctacagc aactgctaca gcatgatgcg ccagtatcac gtgcacacgc 300

aagtgct

307

<210> 11726
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-E9

<400> 11726

ctggctttga cagacccatt tgacttctac caacaacaca tcattggtgg tgccctgggt 60
tagattgctt attagttgta attcaataat aaagtttttt agaatctgga actgtaactt 120
cttatatctg tttcaccaca tacatcatcc aaagattaca agatacattt ccaaattcta 180
acaaatttac aaactgggcg ctcattatac agtatccaaa cttacctacg cttgcatgca 240
actctataac ttttctatag cttaacttat atcaaatacg ctggccccga tagtacttcc 300
tcatgactgc taaaacttta tcgataccca gcttcagcct cttac 345

<210> 11727
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-F1

<400> 11727

cgcaccogcc tgtaggctgc cgtcgaacct ggcgcttccc tctgccatga ccgtcttgtc 60
gctcatcctg ctcacctact ttgcggtcgt ctccggactc gtgtacgacg tcacgttgta 120
gccccctggc atcggcagcg cccaggaccc cggcacttgc gccgttcggc tggtcgtctt 180
gcttacaggg ctgcgtaacg gccagtgcac catcgaggga ctctcctgcg ggttcatggt 240
cctgcttggc ggcattggca tcacctgctc cgacctcgcc gtcaaccgca cgaggccccg 300
gagccttcgc gtctcgtttg gaagc 325

<210> 11728
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-F10

<400> 11728

gttgatgttg ctgccaggag cagcaacaga ctacaagggtg cacctataac ggctatggca 60

gtagctcaaa tctaaaaaat tgtcatgaat tctaaggga gcagtgcagc cctctggtaa 120

tgactattgt ccaatcacgt tcgatacaac caagtaactg ccacgtattg cagcaacaat 180

gctgtcatga tcttaggcac attgagccac aatacattca ccaagcaatc tacaacatgg 240

atcaatacat aatccacgag gagcaacagc aacaaccatg tgagttatgt ggatctcaac 300

aagctactca tagtgctgtg gcaatcttga cagcagcaca atacctacca tcaatgtgcg 360

gcttgtagca ctcatctac caaaattatc catgcagcag ctatgaca 408

<210> 11729

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-F11

<400> 11729

cccacgcgtc cgcccacgcg ttcgcccacg cgtccgcccac cgcgctccgcg gacgcgggcg 60

tttgagcatt cagaaacaca ccaagcgaag cacattagca acaacctaac aacaatggct 120

accaagatat tatecctcct tgcgcttctt gcgctttttg cgagcgcgaac aaatgcgttc 180

attattccac aatgctcact tgctccaagt tgcattatta cacagttcct tccaccagtt 240

acttcaatgg gcttcgaaca cccagctgtg caagcctata ggctacaaca agcaattgct 300

gcgagcgtat tacaacaacc aatttcccag ttgcaacaac aatccttggc acatctaaca 360

atacaaacca tcgcaacgca tcagcaacaa caatttctac cagcac 406

<210> 11730

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-F2

<400> 11730

gcaacataga aagtggaata cagtagctac aatagagcaa caatggctgc caagataggg 60

tccatcctta tgctccttgc tatatatgca tgtgttgcta acgcgaccat ttttctcaa 120

tactcacaag ctccatatagc tgcctttctt tccctataacc tatcattaat gaccgcttca 180
 atatgtgaaa acccagccct tcaaccctac aggctccatc atgcatttgc aacaagcaac 240
 ttacctttat caccctgtt attacaacaa tcgccagccc tatcggttggc gcagtcattg 300
 gtacaaacca ttagggcaca acag 324

<210> 11731
 <211> 323
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-F3

<400> 11731

gtttgacact cataacaaga aagtcagtat gaaatatgat ggatatttta gaagcatgaa 60
 ccatagtagt tgttggtaca gaaacgatac ttttatttta gcagcacaag caactgaggt 120
 attttatttg caagacatca agaattctgg aagctagtag attgatcaaa aatttacaca 180
 taggcacttg tgggtgtgtgg ctgaaaatga cattgatgaa agacctagtt tctcaagact 240
 atcataccaa gatgatacat gtattggttc tgaagtgcaa gttaatgaag gagatatgga 300
 gataactgga catcaggatg ctg 323

<210> 11732
 <211> 324
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-F4

<400> 11732

ggtctcgccg ctgctggcgg gcgtcgggca gctgtacctg aacaacaacc gggttcagggg 60
 cgaggctctc gtgcggctgg tgcattgagct ggtgggctcc ggcggcctgc aggtgctgta 120
 cctgcagcac aacttcttga cgggcattgc gatatcgtct gaatcgctcag ttccctacaa 180
 cgtgtcgtc tagcgggaatg acaactgcag ggtgcacgcg gtgtacacgc agagcccgat 240
 caaggcctgg tcgcagaaca cgcgtgcggc gtaccagtgc ccggagtgga ggggctgagc 300
 ctgatgtcgg ggtgagcttg atcg 324

<210> 11733
<211> 64
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-F7

<400> 11733

aaaaaaaaat aaaaaaaaaa aaaaaaaaaa aaaaaaaaaat aaaaaaaaaa aaaaagggga 60

aaaa 64

<210> 11734
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-F9

<400> 11734

gtttctttgg cagatgtggc caactaaatt tcagaataaa acaaatggag tgactcccag 60

gcgttggatc cggttttgta atcctgcatt aagtgcatta atttcaaagt ggattgggtc 120

tgatgactgg gtgcttaata cagacaaact ggcagaactg aagaagtttg ctgataatga 180

agatctgcat tcagagtggc gtgctgctaa gaaggctaac aaaatgaagg ttgtttctct 240

tataagggag aagacaggat atattgtcag tccagatgca atgtttgatg tgcaggtgaa 300

aaggatacat gaatataagc ggcagctgct aaatatcctt ggaattgtct accgctacaa 360

gaagatgaaa gaaatgagca cagaagaaag agcaaagagc tttgttccaa gggatatgcat 420

attcgggtggg aaagcatttg ccacatatat 450

<210> 11735
<211> 138
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-G10

<400> 11735

aaaaaaacaa aactaatct atcatataaa aaacgaacaa aaaaaaacag gggatagggg 60

caggacatcc ggtctagcag ttccatgctt acaaacgaag tcatgctact tcatctctct 120

tttatcgtca ctctaaa 138

<210> 11736
 <211> 331
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-G11

<400> 11736

gccgctccag cctttcgcta gggtttaacc accggcgggc cgcgcgacgg cggcaagatg 60
 gtgcagcgtc tgacctaccg caagcggcac agctatgcc aagatccaa ccagacgcgg 120
 gtcgtcaaga cccctggtgg caagctcgtg taccagtaca ccaagaagag agccagcggg 180
 cccaagtgtc ccgtgaccgg gaagaagatc cagggcattc cccatctgag gccagctgag 240
 taaaaaagt ccaggttgtc taggaaccgc ataactgtga accgtcccta tgggggagta 300
 ctatctggaa ctgcagttag agaaaggatc a 331

<210> 11737
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-G12

<400> 11737

cccacgcgtc cgaccacgcg tacggcaaca tagaaagtgg aatccagtag caacaacaga 60
 gcaacaatgg cgaccaagat attttccctc cttatgctcc ttgctctttc tgcattgtgt 120
 gctaacgcga caattttccc tcaatgctca caagctccta tagcttccct tcttccccca 180
 taccttccat caatgatagc ttcagtatgt gaaaaccag ctcttcagcc ctataggctc 240
 caacaagcaa tcgcagcaag caacatacct ttatcacctt tgctgtttca acaatcgta 300
 gccctatctt tgggtgcagtc attggtacaa accatcaggg cacagcagct gcagcaactc 360
 gtgctacctg tgatcaacca agtagctctg gcaaaccctt ctcctactc tcagcaacaa 420
 caa 423

<210> 11738
 <211> 321
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-G3

<400> 11738

acgtggtatg cccgtaggag aagagcaagt ggcggcgccct gtcgcgacgc gactaccgga 60
ccccgctggt cttccacgac ggccagctcg cgtttctgcc gacgccactc aacacggtgg 120
ccatgttcac gtggcttctt ctggggcgccg cgctagagat agtgcggtg tccgtagcgc 180
tagcgctgtc gtgcaaggtc tgcacggagc tgctggtggg cactggacag tcagggcgcc 240
tccgaggctc actcccagc cctgggaaca gcggcgggtc cggacagctg tacgcgtgca 300
accaccgtac gctgatcgac c 321

<210> 11739

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-E6

<400> 11739

cccgaattcc cgatctccgg ccgacgccat ggcagccccc ttcgcgcccg tcataggggt 60
gtcgaactg ctcgctgaga ggtcctcggg cgcgcgctc ccaggccgcg gcagcaccac 120
ccggggagct gctctgccgc gcggttgagc gccggtcact gtggtgttag cgctgtgaag 180
cttattgcta tcataggcgg agttcggatg cctactcagc gtgatcctgt ccttcgtcgg 240
ctactctggc gggtccaagt ccaaccgcga gtaccgcaac ctagccgacc acgccgagtg 300
cgtcaagggt gagtatgatc ccc 323

<210> 11740

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-G8

<400> 11740

atacgatctg tcgctcatcc cacatcagta gtcgaccaag cacaagcagc agagccggcc 60
ggaatatgtg gacgatcatg aaggtggcga cgccgcaggt ggccgtcctc ctgctggtcc 120
tcatcgctcg tgctcaggag gcggcgccgt tggcggaggc gcgcgtgtgc cgtcgccgga 180

gcgcgggctt taaggggggtc tagatgttcg accacaactg cgctcatgtg tgcttgagg 240
agggtacgg cggcagcaac tgcgactgca tgatgcgcca gtgcaagtgc atcagggagt 300
gctagctagc taggctctag gatc 324

<210> 11741
<211> 139
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-022-Q1-K1-C7
<400> 11741

cccacgcgtt cgtccacgcg tgcgcagagt tgacaggtgt aggcagctcc agttggcgg 60
caccattcct ttgccgttag aagcacctca tctcccaccc ccagacaaca taagcgatga 120
gcggcaggaa cgaggcgca 139

<210> 11742
<211> 325
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-022-Q1-K1-C8
<400> 11742

accacgcgtt cgtccacgcg tccgtagtcg ggtcttctaa tggagacact cattgggtgc 60
acaccaagg atccactcta tgtaccttca ttaggaccac ttgaccata ctgcacaaa 120
gaaggtttga ttctatgtga caaagatagg atgataggac gtcattgtat ttgcttagat 180
tcattggtgg taatatgtac ccgactaggt agagacatgt aggagattgt cgntagcaaa 240
agctataagt tggctgaaaa ggtttcatct ataatggaag agacacaacc tcttcttaca 300
cggattgagg atttagctga agaaa 325

<210> 11743
<211> 444
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-022-Q1-K1-C9
<400> 11743

cccacgcgtc cggaagggat aaagtcaa at gcttgatggg caaggcatgt gcatatgaga 60
ctatgcagcc tgaagacccg tgcaaatttt gatgatgcta gttccaagtc cccttccaaa 120
tttcttggca ctatacaggg aacttgacct tcaaacatct tttgaaggtc tgaagatgga 180
aatataatct tctgctgaac tgacagaaaac tttgtgaatt gcagagcaac ccgaattgaa 240
tggttttagct tgtcattctt gatcctgtca cagcaagtgg tgacatcatt gaggcttgcc 300
catggaatta tgacaactgt atctgccatg agctgtgtaa ttgcagttct tacatcttac 360
ctgtcttttg tcaatggtaa catctagtga ctattgtatg actaacatgg aatttcggta 420
cctgcaattg ttatgtacga ttct 444

<210> 11744
<211> 397
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-022-Q1-K1-D10
<400> 11744

cccacgcgtc cgggttgggt ttattgaggc gtggaggatc cctggtgttg gcccttgccg 60
cctctgcctt ttcttctgca agcttgtggc gtatacgttc ctgtactggc ttcccttcta 120
tatcagccac acagctatcg gtggagaata cttgtcggac tccgcagccg gggactgtc 180
gacgctgttc gacgtgggcg gcgtcgtggg cggcaccctc gccggccaca tctccgacca 240
cctggacgcc cgggcgctga cggccgcgag cttcaccttc tcggcgatac cggcgctctt 300
cttctaccgc gtctacggga acgtctcgtt ggcttggaa atcgccctca tgttcgtcac 360
ggggatgctg gtgaacggcc cctacgcgct gatcacg 397

<210> 11745
<211> 392
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-022-Q1-K1-D11
<400> 11745

agcaaaacaa caccatgaaa agcttaatac aggatacaac agtgtaggg agagtagtgg 60
tgttatagtt aaagcctgga aatgcaggtt tacttgggtg ggccatgagt tctgttacac 120

aaaagggtaa accttatgac catgccccaa tatctactgc aaatgccaat aattcttaag 180
catcaacaac ctaaactgcc actccagaca ctcaggcttc cacactatca tatgcaccat 240
ccacattcac cttgcttgat caagctgcat tagcatcagc aaggtcatca gtagattggt 300
ggagtgagct tgaagatggg aaaatccatg atgagaatag tagctaataa aattgatggc 360
atgatgtata cccatttgat gacaagccat cc 392

<210> 11746
<211> 321
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-022-Q1-K1-D2

<400> 11746
agcacgcgtc cgagaccgca cctgtctgc gagctcgctc ccgtaccgt ccgctggggg 60
ccgctcgacg ccgccgtctt gcgctcatct agtgtctaca ctcccggcga cgatggcgga 120
ggacttggtt ttggacacgg cgatccgaga ctgggtgctg atccaggctt acgtgggttat 180
ggctctcatc ggcgactacc agtactgaag tctgcaagct catgcgctgg gaggcgacct 240
ctccgtgtac cgacccaag ctcgtttagg aagggcaggt ggtcatcagg gcgaggaacc 300
tgaggaccaa cgcacagttc a 321

<210> 11747
<211> 142
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-022-Q1-K1-D3

<400> 11747
atctccacca ccatcggcgg gaagaacggc gagccaagc ggaccatcag ttacatggga 60
gaacgtgacg tgggcacagg ctcattaggg atcgtcttcc aggctaagtg tctggaaaca 120
ggagagacct tcgcatcaa ga 142

<210> 11748
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-D4

<400> 11748

agcagctgtg caagcctata ggctacttca agcgattgcg tagagcgtat tacaacggcg 60
aattgccc aa ttgcaacatc aagcagtggc acatctaaca atacaaacca tcgcatcgca 120
acagcaacaa cagtgcctac cagcactgat ccaa atgtgc aatggtgccc ttgttgacta 180
attgcagcgt gtgctgattg gatacaactg acttgctaga gcaa acgtag tttcaaacca 240
gcaacaacaa caactgcaac agtttcggac agcgcttagt caactagcca tggatgaaccc 300
tgccgtctac ctacaacagc aacaa 325

<210> 11749

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-D8

<400> 11749

cgcaaattgc accaagaaat ccacgagag gccgtcgaca ggggaattaa tggcgtcgtc 60
gtctagcagc agccaccggc gcctcactct cgcagccgcc gtctgtctct ccgtgtcgcg 120
ggctgccagc gccagcgccg ggacctgctg catgccggga tggaccatcc cgcacaaccc 180
gtccccgagc tgccgctggg acgtgaccag ccggacctgc agcatcgggc cgcgcctccc 240
gtggccggag ctgaagagga gatgctgccg ggagctggcg gtcaccccg cgtactgccg 300
gtgcacggcg ctgagcatcc tcattgga 327

<210> 11750

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-D9

<400> 11750

caaagacatg gattgaagtt tctggttcat cagcaaagga tgttgctaag gagctcgggg 60
aacaacaaat ggtgatgcca ggccatcgct agtcaaactt gcagaaggaa cttaaccgat 120
acatccccac tgccgctgca tttgggtggg tatgcattgt cgcattgacc gtcctggctg 180

atttcattggt tgcgattggt tcaggaactg ctatattgct cgctgtgaca atcatataacc 240
aataacttcga aaccttttgag aacgaaaggg cgactgagct tggtttctat ggtttttgat 300
cattagctgt ggaaccttaa ctagtctata gatgaatttt cttgtcag 348

<210> 11751
<211> 315
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3059-022-Q1-K1-E1
<400> 11751

ttgacaaagt tatcttgtgc aattgaagcc tctggtgctc ggtgtcagat cggatatacag 60
cagggtccgag gattgaaggt agtaagcttc caactagata gcttgattgc ggagccgtag 120
cgagaaagca tttataggaa aactgttgaa gagctatttt ctttaagtac agtgtatttt 180
gatgaatang aattagattt gaagattcca gctgatctta taagaagttc tgagaatgctc 240
aattcaattg tacaggataa tggaagtgtt aggttggaga actatcttgt ccaggctatt 300
gcgttgcttc ggcag 315

<210> 11752
<211> 239
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-022-Q1-K1-E10
<400> 11752

cccacgcgtc cgcaatactt cgcttttgaa atcatgctac gcttgcagaa gggtcagcgt 60
ctggatcctc gtactgttta ctgaaaacct aaaagatgca cgcaatgccg aacacgatct 120
ttccatatgc atgtccattc acgggtctca gatgattatt gaaacgccag atttataagt 180
caccctagag cgcgcatgca tctagttagg agaccgcaaa ggacagggca ccattttat 239

<210> 11753
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-E3

<400> 11753

cggaacgctg ggctgctgca ggccttcgc cgtcgccgc gcatctaacg cagttccgtg 60
cgccgcagcc cgaggcaaga gggatctcca gaacgacatt gatctgctca acccgccggc 120
agaactcgag aagctcaagc acaagaaaga gagactcgtc cgagcggcca actttcttct 180
gatggatgtt aagtgccagg ggtgcttcgg cataaccgct gagttcagcc actcccagga 240
ctgttggtgt gtgcctggc tgccaaactg tcctctgcca acccacagga ggaaaggcaa 300
ggctcactga gggctgctct ttccg 325

<210> 11754

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-E4

<400> 11754

gaggaatatt ccgcatattg gattgggccc atattgttaa tgcgcatata gtacctggac 60
ctggaatcgt agatggcttg gagctgaagg gtttgcttaa aggaagaggg ctacttcggc 120
tcgctgagat gagctctgcc ggcaaccttg cccatggtga tgacactgct gctgccgtaa 180
agattgctga gcaacattct gattttgata tgggataaat atcagtaaat actgagtctt 240
ggtcagtaaa accatcaagc cctgcattta tccatgccac gcctggagtt cagatggctg 300
caggaggaga tgatcttggg caacaat 327

<210> 11755

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-E5

<400> 11755

cagaaacaca ccaagcgaag cgcactagca acaacctatc agcaatggct accaagagat 60
tatccataat tgcgcttaat gcactttttg cgagcgcaac aaatgcgtcc attatgacca 120
caatgctcac ttgctcctag ttccattatt acacagttcc attcaccaga tacttaaattg 180

acctaagaac actcaactgt gcaagccgat aggctacaac aagcgagtga agcgatcgtc 240
 ttacaacaac caattgccta attgcaacaa caatccttgg cgcatacctaac aatacaaaacc 300
 atcgcaacgc aacagcaaca ac 322

<210> 11756
 <211> 323
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-C6

<400> 11756

ggaccaacta gcagcatata atgcacaata atgtaccaac aaaggcagcc aaaagagggtt 60
 gccttcttat gctccttggga ctatctgcaa gtgctgctac ggcgaccatt ttatctcaat 120

gctcacaagc tcctatagct tccattattc caacgatcct atcatcaaag aaatattcaa 180
 tatggtaaaa tccaattttt taactctaca tgatatttca agcattagca tcaagcatct 240
 tacctttatc actcctgggtt cgcttcaaca atcatcagcc ctattacagc agttaccttt 300
 ggtgcattta ttggcacaaa aca 323

<210> 11757
 <211> 322
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-A4

<400> 11757

gctccttgct ctttctgcat gtgttgctaa cgcgaccatt tctcctcaat actcagcagc 60
 tcctatagct gaccttctta ctccatacct tccatcaatg accgcttcag tatgtgaaaa 120
 cccagccctt caaccctaca ggctccaaca agcaatcgca acgagcatct tacctttatc 180
 acccctgttc tttcaacaat cgccagccct atcttttagtg caggcattgg tgcaaaccat 240
 cagggcaciaa cagctgcagc tactcgtgct accagtgatc agccaagtag ctctggcaaa 300
 cctttctccc tactctcagc aa 322

<210> 11758
 <211> 319
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-A5

<400> 11758

cggacgcgtg ggctgcgaat gacgggatca tccttcgcat ccataatctca cgggggcttc 60
ggcgccgctt taagggcaag ctcttactat gctgatctcc ttgatttggt caatgacgtt 120
gagttcaaga cagcttcagg tcagctgctg gaccttatca ctacgctttg tgggtaaate 180
gatctaacia gtgataacat aacagttcac ggtcgaattg ggcattacat gacagtctat 240
tattcattgt atctggcagt tgcattgtcc ctgctgctct atagcgagaa tttggacaat 300
tatggtgatg tacagaaca 319

<210> 11759

<211> 108

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-A8

<400> 11759

cttgacgagc tctccacgct cctccaagtt cctcttgtaa tatgaactgt gaacagggga 60
agcgaagtca ttgctgcatt cttacctgtg aacgactgga ctgccttt 108

<210> 11760

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-A9

<400> 11760

ccacgcgttc gttgccggtc ccgaataaag agcagcagcg cagaggtcgg tagagcgaga 60
agaaggcaat ggcggccgag agcttccttt tcacctcgga gtccgtgaac gaggggcacc 120
ccgacaagct gtgcgaccag gtgtcggacg ccgtgcttga cgcattgcctc gcgcaggacc 180
ccgacagcaa ggtggcctgc gagacctgca ccaagaccaa catggtgatg gtgttcggcg 240
agatcacgac caaggcgacc gtggactacg agaagatcgt gcgcgacacc tgccgcgaga 300
tcgggttc 308

<210> 11761
 <211> 321
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-022-Q1-K1-B1

 <400> 11761

ggtgatctca agtaattaac agaaaatata ttccatcatt gaaaatgagt tccgttggtg 60
 tgggtgctac tggtagggag aataagacat catggcctga ggtgggtgggc atgtgcatca 120
 aggaggcaag agagatcatt cttaaagaca tgcccaacgc tgacattcag gttctaccga 180
 taggctcgct tgagacccaa gactttcagc ctgatcggtt tagcatagtg gatgatattg 240
 ttggctagac tccaacagtt gngtgacaag gatatgcctt atgtataggc caaataaaca 300
 aagcctactt ttatgtatca t 321

<210> 11762
 <211> 402
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-022-Q1-K1-B10

 <400> 11762

gttttcacgg gtgctccagg aaagtatgtg gagctgaagg aaagcgtgaa gagtttgcag 60
 ggtgttttgg atgggaagta tgatgacctc cctgagcagt cattctacat ggttgggtggc 120
 attgaggaag tcattgctaa ggctgagaaa attgccaagg agtctgcttc ataaggaggc 180
 ttcttgcttg ttcaaccctg tacaagttcc atttttggat ttttaagcgtt tatttatgct 240
 tttcccagtt aggcattgacg agctggagag tccatctcct gctgagagat gtttggttta 300
 cccttctttg ctttcttcaa cttacacca aattagcaac tgcagtgacg ttgggttttg 360
 ctgcacccaa acttcttga ctgaagaaac ttgtggcctg tg 402

<210> 11763
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-B11

<400> 11763

acagtttctg ccattcaacc aactagctgc attgaactct gctgcttatg ggcaacgaca 60
actagtacta ccattcagcc agccagctgc tgcctacccc cagcaatttc ttccattcaa 120
ccaactagca gcattgaact ctctgccta tgtacagcag caacaactac taccattcag 180
ccagctagct gctgtgagcc ctgctgcctt cttgacacag caacaattgt tgcgttcta 240
cctgcacgct ggcctaacg ttggcaccct cttacaactg caacaattgc tgccattcaa 300
ccaacttgct ttgacaaacc cagcagcgtt ctaccaacaa cccatcattg gtggtgcctt 360
cttttagatt gcttatgagt tatagttcaa taataaagtg tttttgatga a 411

<210> 11764

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-B12

<400> 11764

cctttgcctg ccttcccatc tctctgggc ttccgccatg gccagcccg tattcctgct 60
cctctctccg ctcccgctc tgctccgcgc cgccgtcgcc gcaccatcac ctccagccca 120
gccgcggcta ccacgtcgag ctcggcgctc gcgagaaagc gcttttggag gaggatgttg 180
ctttgaagag gttcaaata tacaagaaca gtgtgaaaca ggtctccaag attgggaatg 240
ttctcacttt agctgttgta ttcggttgta gctacgagct tggtttggtg gcggcaagca 300
tgaagtgaag gaaaacacag ccattattcc gggaagtgat ccatcagcgt agactgtcat 360
tctatcacct cgtgttttta gcctgtctgt ctctctctta ttttgcgtg caccatgtat 420
aaaataaaac taaacta 437

<210> 11765

<211> 114

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-B2

<400> 11765

agcacgcgtc cgcgcaaatt gcaccaagaa atccatcgag aggccatcga caggggagtg 60
agagggcgtcg tcgtctagca gcatgcctcc ggcgggtcat cctcgcaacc gccg 114

<210> 11766
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-B3

<400> 11766

gtcgtctgag ccagcagcac gggctgtcaa gcatgggcgc caactagggtg ctcttcgggg 60
tctaggccta cgagacgctt agcgaccgcg cgcctaccc ggccagcttc atgctctgcc 120
agctcaccgg ctcttacgcc ttctgtgtgt tcgacaagtc catccactac atgatagtct 180

gatgcgaccc ctatgacaga ttgccgaatt tctgggagat caacgcataa tgctgcatcg 240
ccttatacga cgacatcgac atactcaaag gctcatgcgg cagtgcgctc gcgccgttcc 300
cgcaaggctg cttctact 318

<210> 11767
<211> 54
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-B4

<400> 11767

cgcagccgcc gtctgtctct ccgtgctcgc ggctgccagc gccagcgccg ggac 54

<210> 11768
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-B7

<400> 11768

aattattgaa ataaatcctt acatgctggg gacaatggct ggaggtgctg ctgatggcca 60
atcttgcat aggaacctag gaaccaagtg tcgtctccat gagctttcaa acaagcgaag 120
gatctctatt gctgggtgctt ccaaactgtt gactaacatc ctttattcat atcacgggat 180

gggactgtag ataggtacaa tgatcgctgg atgggatgag aaggatcctg gctaggacta 240
 tgttgacaga gaggggtgcgc ggctcgctggg gaacagggtg tctgttggt ctgggttact 300
 gtatgcttat ggtatcttgg atga 324

<210> 11769
 <211> 317
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-022-Q1-K1-B8
 <400> 11769

agttgctgca caaacaaaag ctattgctgc taagatcaag gtctgtatca acgtaggggt 60
 tgcctattat ccagtttagt ctagggtaac tggtaaagtt gctcacccca gctcatgctc 120

aggaagtgca cacctccctg aggtattggc taaatgccaa tatcatccct gactgagctg 180
 catctactat tatcattttc ttaagcagtg taactactga taactgtaaa gagctttcat 240
 cacattctga tgaagatgaa taaatgccag aggagcttct ttgaagcctg acttcatcga 300
 catcatcaac gcggtca 317

<210> 11770
 <211> 284
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-022-Q1-K1-B9
 <400> 11770

cccacaccta ctggcacttt tccagttttc tagacgaaca gcacaatgag gggacgggtca 60
 taactctcaa ggcgaagccg aataagtaca ctgccaacga catcgactg aagatccact 120
 ctttttccac taacctgtac tgcttgtagc ctctcagc cgacctgact gacgcaatac 180
 aacgccggtc atgcgaagcc ttctgtccac ttcttacgca cccctgatcc cgacatcaag 240
 tccatgcaga tccaccacga cgcgcgccac cccaaactcc cctt 284

<210> 11771
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-C1

<400> 11771

cggttcgagt tgcaggctcg tcccacgcgt cctgggtccg accgatacct ttcttggaac 60
tcaagaagga tcttctcccc taccgaccta gcgtaatcgg cgatggcgac tgaggcgatg 120
gacatctcga agcccacgcc ggtggcgtgc ggcgacgagg ccgcggcggc tgccaagggg 180
aggatcggtg gagtgttctt ggagctagat caggactacc tgcattgtcat tcacgacctg 240
aagctacaga gccattagaa gactgacatc tctcaccatt attgaggccc aactgaatgg 300
cctcaactcc cgagttacaa tgctcaggga agagttgcag ttgcttcaag agcctggc 358

<210> 11772

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-A3

<400> 11772

attattgaga ccaacaagca acatagaaag tggaatccag tagcaacaat agagcagcaa 60
tggcgaccaa gatattttcc ctcttatgc tcttgctct ttctacatgt gttgctaacg 120
cgacaatttt ccctcaatgc tcacaagctc ctatagcttc cattcttccc acatacctta 180
catcaattat agcttcaata tgtgaaaacc cagctcttca accatatagg cttcaacaag 240
caatcgcagc aagcaacata cttttatcgc cttgtgtgt tcaacaatcg ccagccctat 300
ctttggtgca gtcattggta caaaccatca gggcacaaca gctgcagcaa ctcgtgctac 360
ctttgatca 369

<210> 11773

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-C11

<400> 11773

ggaccgttcc ttaaaatgaa caaaaccgta ccacagactg cagggcagca gcctgtgcat 60
gtgacttcgc ctctgccaca gcaaggcggg cgtcgattcg gcggcggtgg cggatccagc 120

tccggcggaa agcgacagag gggagatgat cgtggcagta gccgcagggg ctggcaccgt 180
 ccgtattgat gtttgccatg ccgctgattt gcaattagaa gttagaaccc agcaattagc 240
 atatttatcg cagtaccatg ctggaaactg tactttgaat tatttgtttt tctgtgtgc 300
 ttcgtaacag gcctgcccta aaaagaatga tagtaccgca agggggcaaat gtagtggtaa 360
 tataatctat acatttgtaa ccatcttcat cctgcgttga ccgtcttagg ttattaaaat 420
 aaatatattt cctccgttct tttt 444

<210> 11774
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-022-Q1-K1-C12

<400> 11774
 ctgacaatac cgtcctcagg acaaggcacc tcagaagccc ttctcgtccg cgccgcctcc 60
 ttgaccccg c tggccggcga gctgctcagc gcggtttttt tttgcatcca caatgccgca 120
 gcttggcaca tgttcattgc ctggagctgc aatctatggc acttcaacta ggagatttgg 180
 aggtttggag tttcagcaac ataaagttaa tcacatctca tttggtcgga aagcgtctgt 240
 taaagcaaca ttgaaaactg tgagatgcaa tgccactcaa acacaaagcg tccaaaagaa 300
 atcttcaagt gcaactattc agcgtgataa gaaaggaaat gtacaagggc caaaactgga 360
 tgacggaagc ggtgggttcc ctccattccg ctttggcaaa ggtgggggtg gtggtggaag 420
 cgggggaa 428

<210> 11775
 <211> 128
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-022-Q1-K1-C2

<400> 11775
 tatgactcgt gcatacccat tctctagttt tgacttaacg catttatcat tttctgaggg 60
 ttcttcactc caagtattaa ctaatataat taatctttcg atgctccaat aaagcttaaa 120
 tttccaac 128

<210> 11776
 <211> 325
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-022-Q1-K1-C4

 <400> 11776

 gcttactatg ttacatgggc gcggaattta tggatcttgc atgggggtgta atggcggggg 60
 gtaaataataa cgtagaataa gatgttgaaa gatatggcat aaaaccgaaa cgacacagaa 120
 gttgcataaa tagtatatac cgtttggcgt aaaacgttaa gtcatttgtgt gtaaatagtg 180
 tattatggat attagattga cattgacatc gccataatat cgggactgtt tcggaaataa 240
 tgggtagacc ctgtaaacgt ggatgcagtt acttgtatag tatacgtgat ttcctttcat 300

ccgaaaaaac accacaaagc ctgca 325

<210> 11777
 <211> 328
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-021-Q1-K1-H10

 <400> 11777

 ggatgaatta ggttcacgat caagctctat tgtgttctaa gaaactttct gtgctcgccc 60
 aatgttacat tattaggaag cggatgaata tgcattgcagt tttgttggtt ggaactagat 120
 gtgtatggaa gaaacatgat cttttttctc ggagggttaa aattatatat ttagggtag 180
 tttgaaaact tcatttttcc aagggaattc tattttccct aggaaaaatg aactggtttc 240
 ccaaaccagc ccatgatgca tttcccgctc tgagtatcgg gcctttttct ctgtccaaaa 300
 aaaaaaacia aaaaataaag tttttttt 328

<210> 11778
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-021-Q1-K1-H11

 <400> 11778

caagctccta tagcttccct ttttcccca taccttccat caattatagc ttcagtatgt 60
 gaaaacccag ctcttcaacc atataggctt caacaagcaa tcgcagcaag caacatacct 120
 ttatcgccct tgttgtgtca acaatcgcca gccctatctt tgggtgcagtc attggtacaa 180
 accatcaggg cacaacagct gcagcaactc gtgctacctg tgatcaacca agtagctctg 240
 gcaaaccttt ctccctactc tccgcaacaa caattttcttc cattcaacca actgtctaca 300
 ctgaaccctg ctgcttattt gcagcaacaa ctattaccat ttagccagct agctactgcc 360
 tactctcaac aacaacaact tcttccattt aaccaattgg ccgcactgaa ccccgctgct 420
 tatttgagc agcaaatact acta 444

<210> 11779

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-H12

<400> 11779

cggcaacgca tattgcacca agaaatccat cgagaggccg tcgacagggg aattaagtgc 60
 gtggtcgtct agcagcagtc accgccgctt catcctcgca gccgccgtcc tgttatccgt 120
 gctcgcggtt gccagcgcca gcgcccggac ctcttgcgtg ccgggggtggg ccatcccgca 180
 caaccgctc ccgagctgcc gctggtacgt gaccagccgg acctgcggca tcgggccgcg 240
 cctcccgtgg ccggagctga agaggagatg ctgccgggag ctggcgga tcccggcgaa 300
 ctgccggtgc acggcgctga gcctctcat ggacggcgcg atcccggcgg gcccgacgc 360
 gcagctgga 369

<210> 11780

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-H3

<400> 11780

ccgacgcgtc cgcgagaagt tactcaaggt ggcaagagca aatttgagc ggactccgga 60
 accgtcctta gggctctgtg tcacagaaat gattcagagg catcacatta cgtgaagaag 120

caattcaaga taccagctc agctccgagc gcctgattga ttgcgaacga aaaaacagat 180
atcgaacagg acagtgcagc cttgctcgta acccaagaaa cgggtgctcca cgcgccattt 240
tcatgtttgt gtaacagtta ttgttcacgc gtaacactaa gactttgggt ggacgcggca 300
gtaaacaatgt atttacacaa atactaacac actgggtccg atttgaatgg tactagtttt 360
tgccc 365

<210> 11781
<211> 350
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-021-Q1-K1-H4
<400> 11781

ctggattgtt atggtgatcc tgaatttatc ggcaagattg gaacggacat tgaagagtac 60
aagtgtcat ggctagtgtt gcaagccctt gagcgtgctg atgagagcca aaagcgcatt 120
ctattcgaaa attatggcaa gaaagatcca gcctgtgtgg caaaagtga gaacctctac 180
aaagaacttg acctagaggc ggtatttcag gactacgaga atgagagcta caagaagctg 240
attgcagaca ttgaagccca gccaaagcatt gcggttcaga aagtgtgaa atccttcttg 300
cacaagatct acaagaggca gaagtacggt gctcttggat aaacgagctc 350

<210> 11782
<211> 411
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-021-Q1-K1-H5
<400> 11782

cggacgcgtg ggttgatgat ggagaaactt tccaatggag taaggttaca agaacagtta 60
acaaccttat ccttggtcga gtatattgcc atcaccatgg cacaatgaac ataagtggga 120
atagacgata ttcattgaaa ctgacgttta aagagcagtc tttccttgat cggaatcctc 180
gccaggttca aggagttgtc aacgatgctg atggaagcaa ggtcgcaaca ttgatgggga 240
agtgggatga aagtatgcat tatatcatca acaatgatgc ctccaagacc aactcccatg 300
gttcacatga gggttctggt gccactttgc tatgggagaa aaacgagcct ccagtcaatc 360

ccactcgcta caacttgtgc acatttgcaa taacattaata tgagttaaca c

411

<210> 11783

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-H6

<400> 11783

cggacgcgtg gggccgccgt cacctgctgc agcttctcaa ccggataggg agcacgggag 60

caggtagaac gctgcacaat ccccttcgcc gccgccaaga tggatgaacgt tcctaagacc 120

aagaagacgt actgcaagaa caaagagtgc aagaagcaca cactccacaa ggtgactcag 180

tataagaagg gcaaggatag cctgtctgcc cagggaaagc gccgttatga ccgcaagcag 240

tcacgatatg gtggtcagac caagcctgtc ttccacaaga aggccaagac caccaagaag 300

aatgttctga agctgcaatg ccagaacttc aagcactact taca 344

<210> 11784

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-H8

<400> 11784

cgggattgtt atggatgaaga agaaggatat ccgaaagttt ttggacggta tctatgggag 60

cggcaggggc gtcacgaag aggagcagtg agcgacagag tagccgaaat gccaggagat 120

gaatatggat gtcgtttgag ttgcaatttt gtgagactga atgtgaacc tttttctcat 180

tccttaaata gttgactgcc agtggtcgtg gtttcaaacg aaatttagtc ttattaactg 240

aatttgcgta ttcaaagga ttgcgtggct gcctgggtat gttttgaatt ttgcgtcgcg 300

gtccaataat tcgatggact ggaccaagg aaatttgaat ccgaatggac tgatacgttg 360

tattttt 366

<210> 11785

<211> 391

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-021-Q1-K1-H9

<400> 11785

ngacgcgtcc gcacaagcaa catataaagt ggaatccagt agcaacaata gagcagcaat 60
ggcgaccaag atatatttccc tccttatgct ccttgctctt tctgcatgtg ttgctaacgc 120
gacaattttc cctcaatgct cacaagctcc tatagetttcc cttcttcccc cataccttcc 180
atcaatgata gcttcagtat gtgaaaaccc agctcttcaa ccctataggc tccaacaagc 240
aatcgagca agcaacatac ctttatcacc cttgtttcaa caatcgccag ccctatcttt 300
gggtgagtc tttgtacaaa ccctcagggc acagcacctg cagcaacttc tgctacctgt 360
gatcaaccaa gtagcttttg caaacctttt t 391

<210> 11786
<211> 146
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-A1

<400> 11786

tgtgggcttc tcttccccct ccggtgcggg ttcgtgttcg tgtgggtctg cggagtggg 60
gttcgtgggt cagcggatcg agaggtggag tatgcgatgt tgagtaccgc tgctcgtag 120
ggtgactcgc ctgggccacg gacgac 146

<210> 11787
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-A10

<400> 11787

gacgaaaata atgttgataa aagcatatga cctctagtac ctatcgatta ctccactgaa 60
gaattacaag ctgtacatgc taattcttct actggggcaa atgtcacagc agctgccgag 120
tttgccaagc gcatctcagt ttctaattca aaggaagaga aggctgaagc tgagaaggat 180
aggaatagga gatccagtga agctcgtcct aatgatgagc gaagagagaa gctacatgat 240
cgcgagaagg ataagcccaa gtcagagAAC aagaagattc tggatgcaaa gcaactaatt 300

gatatgatcc caaggacaaa ggaagagctt ttgcctatg atataaactg ggcgatatat 360
gacaagcatg agttgcaaga gagaatgagg ccttggaattt caaaaaagat aattgaattt 420
cttggcgagg aggaatcaac tt 442

<210> 11788
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-A11

<400> 11788

ccacgcgtgc gcgcacgcgt ccgcccacgc gtccgcaagc aacatagtat tgtggaatac 60
aggagcagcg atagagcaac aatggcggca aagatatattt ccaccccttat gtcctttgct 120
ctttcttcat gtgttcctaa cgcgaccatt tttcctccat actcacaagc tcctatagct 180
gcccttcttg ctccataact tccataactg accgcttcag tatgtgaaaa ccagccctt 240
caaccctata ggctccaaca agcaatcgca acaaacaact tacctttatc acacctgttc 300
tttcaacaat cgccagccct atctttggtg cagtcattgg taaaaacat cagggcacia 360
cagctgcaac aactcgtgct accagtgatc agctaagtag ctctagcaaa cctttc 416

<210> 11789
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-A2

<400> 11789

ggttgagatt gagcgacaga tcttgcacgc taagactgat attgaggacc ttaagaagca 60
acttgagcat agcaagattg ataggcagca caaagaagag tgtgaagcca tccggaagct 120
gatttggttg cagcctccac ggtcagaaac tgaaaaactc attgcagacc ttgagaagga 180
gataactgat ttgaatgctg agaatgtagc atgcataagg actttgtaac tgaggaagaa 240
gcagtttgcc cttcttctac atgtggttga ggaattgcag atctcgattg aagatgagca 300
gaagagtata gcagatgagc tgagaact 328

<210> 11790
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-G9

<400> 11790

cagctagcaa catagaaagc acaatagtgt accaacaatg gcagccaaaa tattttggct 60
ccttatgctc cttgggtcttt ctgcaagtgc tgctaccgcy accattttcc cgcaatgctc 120
acaagctcct atagcttccc ttcttcccc gtacctctca ccagcgggtgt cttcggtatg 180
tgaaaaccca attcttcaac cctataggat ccaacaggca atcgagctg gcatcttacc 240
tttatcacc ttgttccttc aacaatcatc agccctatta cagcagttac ctttgggtgca 300
tttattggca caaacatca gggcacaaca actacaaca cttgtgctag caaaccttgc 360
tgctactct cagcaacagc agtttcttcc attcaaccaa ctagctgcat tgaactctgc 420
tgcttatttg caacaacaac 440

<210> 11791
<211> 206
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-F3

<400> 11791

aagaaaaaaaa aaaaaaaaaa aaaaaaatat aaaaaaaaaa aaaaaaaaaa aaaaaaagag 60
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataaa 120
aaaaaataaa aaaaaaaaaa aataaaaaaa aaacaaaaaa aaaaaaatga aaatacacia 180
aaacgctaaa ttcaattata tcaaac 206

<210> 11792
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-F4

<400> 11792

ctcgagccac gcgtccggag caggcagtcg caacaggcat cttaccatta tcacccttgt 60

tccttcaaca accgtagcg gtattacagc agttaccttt ggtccatttg gtggcacaaa 120
 acatcagggc acaacaacta caacaacttg tgctagcaaa ccttgctgca tactctcagc 180
 aacatcagtt tcttccattc aaccaactgg ctgcattgaa ctctgctgct tatttgcaac 240
 aacaattacc attcagccag ctagtgtgctg gctaccccca gaaatttctt ccattcaacc 300
 aactagcagc attgaactct gctgcttatt tacagcagca acaactacta ccattcaatc 360
 agctagctga tgtgagccct gctgtctttt tgacacaaca a 401

<210> 11793
 <211> 301
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-F5

<400> 11793

cagtcggacc cgcagtgcct gtgcgtggcg ctcagcgcg acccggcgtc gctggggctc 60
 accgtcaacc gcacccgcgc gctggacctc cccgacgcat gcaagggtcac gacgcccagc 120
 gtcagcagct gcaagggcgg cgccgcggga ggcctgtga cgacggccgc ggggcagacg 180
 ggcgggcca cgggggtcaa gacgacccc gccacgtcgt ccgtgcccgg tgccgacgcg 240
 tcgccgtcgg gctcggctgg ccgtctcgtc gccggcttct tcgtcgccgc agacgtcgtc 300
 g 301

<210> 11794
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-F7

<400> 11794

cggacgcgtg ggcggacgcg tgggaggacg cgtgggcaag cgtccacctg gtgtctgctg 60
 aactgagcag acagtagcaa gagccactat gctgttcttc tcctacttca aggagctcgt 120
 ggggaaggag gtgacggtgg aactcaagaa tgacctggcg atccgaggga cgctccactc 180
 ggtagaccag tacctcaaca tcaagctgga aaacaccgc gttgtcgacc aggacaagta 240
 tccccacatg ctgtcagtcg ggaactgctt catccggggc tcggtggtgc ggtacgtgct 300

gctcccgag gacggcgtgg acgtggacat cctgcacgac gccaccagga gggaggcgcg 360
 cggaggctga tcggcatcgg catcggggccc cctcacctgt gctgcttctc cccc 414

<210> 11795
 <211> 283
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-F8

<400> 11795

cgcgagcggg cagctcgacc cggctctttaa cccaagctc tcctctctct acgccgtcgt 60
 gccatgcacc agcgacacct gcgcccagct ggacggccac agatgccacg aggacgacga 120

tggagcgtgc cagtacacct acaagtacag cgggcacggg gtgacgaagg gcaccctggc 180
 catagacaag ctggccatcg gaggcgacgt tttccacgcc gtggtcttcg gctgcagcga 240
 ctccagcgtc gggggccctg ccgcgcaggc gtcggggctg gtc 283

<210> 11796
 <211> 444
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-021-Q1-K1-F9

<400> 11796

cccacgcgtc cgacaaacct gaatgtggag caagtgtttt tctccatcgc acgtgacgtc 60
 aagcagaggc ttgcggagac tgattcaaag ccagaggaca aggcaatcaa aattaacaag 120
 ccagaccagg gttccgaggc accagctgcc cagcgatctg cttgctgcgg ctcataagca 180
 gatgcacgat ggccatagcc tttggttatt tgacattatt tatttccgc ttggctgtta 240
 taggaaggat ttgaagaagc cacttatgat ataccgatgt ggttgactc gtggttgctt 300
 ccattctttg aagcaaccac ctcttgctgt tgacgtagct attgctattg ctgggagcta 360
 ttgcactctt gcattngat ccgttggaag aactctcccc tccctacagt gtgtaatgaa 420
 tgaaatccat atcgttgggg ttgc 444

<210> 11797

<211> 331
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-021-Q1-K1-G1

 <400> 11797

 aaaaaaaaaa acacaaaaaa aaaaaattta aaattaaaca aaaaaaaaaa caaaaaaaga 60
 aaaaaaaaaa caaacaacac ttaagttcac atctttctct actcatgcgt tcctacttct 120
 tctcactccc atagtacctc ctcatattaa atacacatgt caatgcttct tcaacggccg 180
 tactttgaat accctgggat tacctaacc aatgcgcttc cggaataacc ccctttttac 240
 atatttcgtg cttcctgcag attccctaac cgatctcctt tttctactat tccacatcct 300
 caatggctaa tgggtctttc taatcaatgg t 331

<210> 11798
 <211> 370
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-021-Q1-K1-G10

 <400> 11798

 cggacgcgtg ggcggacgcg tggggaagca tgctgatgag gagggcgtgg agctcagcct 60
 gggtaacgcg ggaacccgcg aggaccacgc ttgagctcac cgagctgctg ctgcaacgta 120
 caagacgatg cgcgtgagct gattgctggg cgtgaagtcg tatgtagttt agcggttaaa 180
 cgcgtttaac tttagtctat cttattacta tctatcttag tatcttatta ctactactac 240
 aaacagtccg tctagtatct tactatccaa ctagtatctc atcatacatc accagtccag 300
 tcgttatcct tccgtatctt tttcctttgc gagaaatcta tncaaaaagaa aaaaaacaga 360
 cctggcaatg 370

<210> 11799
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-021-Q1-K1-G11

 <400> 11799

agacctccaa ttccctcgta gcagcagcac cagtagagtc tccttcctct ccggcgggca 60
 tgtctgggcg cggcaagggc ggcaaggggc tgggcaaggg cggcgccaag cggcaccgca 120
 aggtgctccg cgacaacatc caagggatca cgaagccggc gatccggagg cttgcgagga 180
 ggggcgggcg gaagcgcata tccgggctca tctacgagga gaccgcgggc gtgctcaaga 240
 tccttcctga gaacgtcata cgcgacggc tcacctacac tgagcacgcc cgtcgaaaaa 300
 ccgtcaccgc catggacgtc gtctacgcc tcaagcgcca gggccgcacc ctctacgggt 360
 tcggcgggcta agcgcgccct ctccatctgg ggggtgggcct agtact 406

<210> 11800

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-G12

<400> 11800

gtttccgtct gctcggtaaa atgcggtgca ttgggaggac gggatgttgt gtgcgctgct 60
 gttagcttca gaccatgcat cgacattcac aaggggaaag ttaagcagat tgttggttct 120
 actcttcggg attcatccaa tgatggcatg gaacttgtga caaactttga atcagacaaa 180
 tctcctgcag aatttgcaaa atcatataaa gaagatgaac ttcttgagg acatgttata 240
 atgcttggct cagatcctgc aagccaggct gctgcactcg aggcactaca tgcatatcct 300
 ggtggcttgc aagttggagg tggaataaat ttgcagaatg caatgtctta ccttaatgaa 360
 ggggccagtc atgtgatagt gacctcttat gtgcttagcg atggcaagat gaacattgaa 420

<210> 11801

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-G3

<400> 11801

attgagacca actagcaaca tagaaagcac aatagtgtac caacaatggc agccaagata 60
 ttgtgcctcc ttatgctcct tggcttttct gcaagtgtct ctacggcgac cattttcccg 120
 caatgctcgc aagctcctat agcttcctt cttccccgt acctctcacc agcgggtgtct 180

tcggtatgtg aaaacccaat tcttcaaccc tacaggatcc aacaggcaat cgcagctggc 240
atcttacctt tatcaccctt gttcctccaa caatcatcag ccctattaca acagttacct 300
ttggtgcatt tattggcaca aaacatcagg gcacaacaac tacaacaact tgtgctagca 360
a 361

<210> 11802
<211> 395
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-021-Q1-K1-G5
<400> 11802

cggaacgctg gggctcgtgag gagttcctta acatttcttg cgacatggag taaaaagaga 60
gggtggatgc gctagtgttt ttctctttac ttctcctagg atactttgct gctcatgcgc 120
atgggaacgg tcatgtcacg gatgatgtca atgtttctgc tccagctgaa gaaggaattt 180
tgcgagaaaa aagagcacia tgcgctcaag ggtttcttcc atgcaaagat aacaagtgtc 240
actgttgcac tggggggccga actcatgatt gctactatac gatggctcag tgtagtcatg 300
catgcttcta atcaaaaatt aagatcactg tttttatata caatgtaatg gtaggcaatg 360
ctattaataa tacataaagg aatttttagtt ttggt 395

<210> 11803
<211> 355
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-021-Q1-K1-F2
<400> 11803

agtgaaggac tccaagaccc ttctcttttg tgagaaggag gttgctgtgt ttgggtgcag 60
gaaccctgag gagatcccat ggggttcggt tggcgtgaa tatgttggtg agtctactgg 120
tgttttcact gaccaggaaa aggctgcagc tcacttgaag ggtggtgcca agaaggttgt 180
catttctgct cctagcaagg atgcccccat gttcgttggt ggtgtcaacg agaaagagta 240
caagtctgac atcaacattg gctctaattg tagctgcaca accaactgcc ttgctccgat 300
tgctaaggct atcaatgaca agttcggatg tgttgagggg ctgatgacca ctggt 355

<210> 11804
 <211> 384
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-G7

<400> 11804

attcagaaac acaccaagcg aagcgacta gcaacaacct aacaacaatg gctaccagga 60
 tattatccct ccttgcgctt cttgcgcttt ttgcgagcgc aacaaatgcg tccattattc 120
 cacaatgctc acttgctcct agttccatta ttccacagtt cctcccacca gttacttcaa 180
 tggccttcga acaccagct gtgcaagcct ataggctaca acaagcgatt gcggcgagcg 240
 tcttacaaca accaattgcc caattgcaac aacaatcctt ggcacatcta acaatacaaa 300
 ccattcgcaac gcaacagcaa caacagttcc taccagcact gagccaccta gccatggtga 360
 accctgtcgc ctacttgcaa cagc 384

<210> 11805
 <211> 414
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-021-Q1-K1-D8

<400> 11805

cgcagctgac ggacagctac aacgggctga ccatcatggc gccaccagc gccgtcgtcg 60
 acaagatgaa agcgggctg ctgaacgggc tgctgccgca ggagcagatc cagatggggc 120
 tctactgctg gctgccccgg ttctacaggc tgtccatgct cggcaccctt agcggcaagg 180
 tcaacacgca aggggtccggg cagcagagc cctacaggta cgacattaag cggtcgggga 240
 acaacgttaa cgtgttcacg ggggtgaact ggatgctgct gggcagnccc ggtagcaagg 300
 actttccggg cggcatctac cccgtcgaca aggtgccggg tccctacgag ctgttcgggc 360
 ccaaagccgg ccacgcccgg ttcccgcgcc ggcacccgcy cccggggccg ggca 414

<210> 11806
 <211> 417
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-D9

<400> 11806

cccacgcgtc cgcccacgcg tccggttga ttgggttcaa agttgggctt ttggacagct 60
gtggtgtgca cggcagctct gtgacttgtg aggaggaagg gaggaagaaa gcggatccat 120
ggcgtcgaag cggatcctca aggagctcaa ggacctgcag aaggatcctc ccacctcttg 180
cagcgcaggc cctgttgccg aagatatgtt ctactggcag gcgacgatta tggggccatc 240
agatagccca tacgttggtg gcgtattttt ggtcactatt cactttccac cggactaccc 300
attcaaacca ccgaagggtg cattcaagac gaaggtttac catccgaata tcaacagcaa 360
cgggagcatc tgtcttgata tcttgaagga gcaatggagc cctgcactga cagtttc 417

<210> 11807

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-E1

<400> 11807

gccacgcgtc cgaccacgcg ttcgctacct cccctggaag tgcgagcgcg agcgtggggc 60
ctacgagaag ttccattacg agcttggtat ggagcggatg cttcagattc agaagatccg 120
ctaggcgcac gagaccaagg tcaagggccg ggcttccatt ggctcatgc aagccaccgt 180
caagctcgac tgatacgggt accagaccga tccgcttgat ttacgcctgc ctgttggtta 240
tagcagcgtc cagaggcctt gcgcctgtgc aaggatcctc aatgtttgct gtgtgaacag 300
agatacgcgt ttgaatttct cataaagcta ac 332

<210> 11808

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-E11

<400> 11808

gcgcacgcgt ccgcaattga aatgaaatga aaaaagtatt gttcattcac gtcacgcagc 60

aaacggccaa ttgcaacaac aatgcttcgc acaactaacc ctacaaacca ttggaacgca 120
 acaacctcaa caacagtgtt tgccattaat tatccaccta accatggtga aacctgtcac 180
 ctacttgcaa cagcagctgc ttgcatccaa cccacttgct cttgccaacg tagctgcata 240
 ccaacaacaa caacagctgc aacagtttat gccaatgctt agtcaactag ccatggtgaa 300
 ccctgccgac tacctacaac tactttcatc tagcccgcctc actgtgggca atgcacctac 360
 ctacctacaa caacaattgc 380

<210> 11809
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-E12

<400> 11809
 gatgattatg acggcaacac caatatcaac tgggaagagt ttattgctgt aacagtgcc 60
 ctaaataaaa cagaacacaa agaacacttg atggcggcct taacatattt cgacaaagat 120
 ggaggtgatt acatcactgt cgacgagctt caaaaggctt cagtggaaca cgagatgaaa 180
 aatgctttcc ttgaggacac catttatcag gttgatcaga acaatgacgg ccagaccaac 240
 tatggcgagt tcgtcacaat gatgcagagc gacagctctg ggcttgggtg gcaaacaatg 300
 gaaagcagca tgaacgtacc cctggaggag gcacctgaag ttactgatg tctctgtcgg 360
 tgcaaagata ctgttctatt tggctgcttt cgtggtgggt cgtcagtcac 410

<210> 11810
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-E2

<400> 11810
 gccacgcgtc cggtcagttt tacttgatgt gaagccacgg gacgatgaga ccgacatggc 60
 caagctcgag gaagctgtta ggagtgtcca gatggaagga ctgctttggg gcgcatccaa 120
 gcttgtccca gttggatatg gcatcaagaa gctgcaaadc atgatgacca ttgtcgatga 180
 ccttgtctct gtcgacactc tcatcgagga ctatctctgc gctgagccag tgagcgaata 240

cgtccagagc tgcgacattg tcgccttcaa taagatctaa atttccttgc aatgggtggat 300
 ggtggacact gtaccagcct aatttataat ttccatgag catcttcagg agtttttcta 360
 aagtatcatt tggagtcatt tacataaaaa gcactttcta tatctttgta atcaccaaca 420
 acttt 425

<210> 11811
 <211> 386
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-021-Q1-K1-E3
 <400> 11811

gaaagaaagc tcgtattggg aactacagtt ccagtactcc aaagtgtact ccagaagtaa 60

acaagagatg ttttgcctgt cttgttcgcc ataacattga tttaatctac ttgaagaaat 120
 ctttggttgt ggatctacta agggagccgg atacatttgg cagcaaagtt attggctgtt 180
 ttgtgagaat aaagattgat ctcaacgatt atagtttcta catgcataaa aaggtgcacc 240
 aacatagaaa gttgtatcag cttggactag taacaggcac cagtaaattcc cctgaagaat 300
 acaagataaa tgatgtatca acagatatc ttttatgtat ttccagcata cctgacatca 360
 aaatttcaag tttgtcagat gaagaa 386

<210> 11812
 <211> 426
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-021-Q1-K1-E4
 <400> 11812

cagaaacaca cctagcgaag cgcactatca acgacctaac aacaatggct accaagatat 60
 tatccctctt tgcgcttctt gccctttttg tgagcgcaac aaatgcgttc attattcccc 120
 aatgctcact tgctcctagt gccattatc cacagttcct cctccagtt acttcaatgg 180
 gtttcgaaca cccagctgtg caagcctaca ggctacaaca agcgcttgcg gcgagcgtct 240
 tacaacaacc aattgcccaa ttacaacaac aatccttggc acatctaacc atacaaacca 300
 tcgcaacgca acagcaacaa caatttctac cagcactaag ccaactagct gtggtgaacc 360

ctgtcgcccta cttgcaacag cagttgcttg cattcaaccc acttgctctg gcaaacatag 420
 ttgcat 426

<210> 11813
 <211> 353
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-E6

<400> 11813

cccacgcgtc cgccacgcg tccgcggacg cgtgggggct tcatcatcaa ctgagatgtg 60
 gttcagatat gaccatctct gacactacta catctgaagt cccggtccat gaaatacctc 120
 cggtgttact tgatgtgcag gaagaagaag agattgtatc cgccgctgtg cccgtttctg 180

tgcacgatgt ggctcctttg cagcaagcag agataggtaa agatgtacca aaacatgttg 240
 aaaaggaggt tgaggttccc caatggctga agagtcttgc tggtgaggaa gcacaggact 300
 ggagagcctt tgtccgcact aggatcaatg ggcatactga taggacctat act 353

<210> 11814
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-E7

<400> 11814

aaggaaatga aggttacgga cgtgcagatt atttccttgt tggcaaggac ttccccagct 60
 atattgaatg ccaagaaaaa gttgatgagg cgtaccgaga tcagaagtta tggacaagga 120
 tgtctatcct caacacggct ggctcatcca agttcagcag cgataggacg attcatgagt 180
 acgccaagga tatctgggat atcagccctg ccatccttcc ctagaccagg tggatatcag 240
 gttcttttcgc ctatatttct gtgaaccctc aggatcaagg aacagttggg gacgacatta 300
 atttgccctca gcccttagc aggaagcgct ggtcacctca gttttgtgta gacaaaatct 360
 aggcacgat aaatgatggg ggactatgca tgggtgttttg gcagcactgt tcagta 416

<210> 11815
 <211> 348
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-E8

<400> 11815

gtggcgggta ccggacccta gctgatcatc agcaagttta catccaccgc agcagtgccc 60
tctttcacca gcagccacag tgggtgatct accatgaaat tgtgatgaca acaaaagagt 120
atatgagggg tgctacagcg gtggacccaa gatggctact agagttggca ccgaggtcgt 180
acaagtcggt ggacccaacg aagatcagta agcgggaagcg ccaagaaagg attgaacctc 240
tctatgatag atacaatgaa cccaacttgt ggcgcctgag taagcgccgc tggtgatttt 300
tcacatgtc ttgcacgtct ttgatgtaat gttactgtag tgtatata 348

<210> 11816

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-F1

<400> 11816

gcgacgcgtg cgcccacgcg ttgcctacg cgtatgccca cgcgtgcgcc caccggttcg 60
cgggcgcgtg ggcaagccca aggctgcttg atcatagacc tttgcaggta catccaatag 120
aacttttgaa gttatgctat gccattggaa tgattagtga gtgccgcagt tagaatgatg 180
tttaaagaag agctaccact tcagcagata atttgtgact tgcttgcat ttttggaccg 240
attgttgcg gtattaataa ttttgcagt acgatacttc tgttgctgctg tttataagct 300
tctgaaaaaa attaaacccc ttagcaggaa ccagcttgta aactcatttt tgcggcaaac 360
aaaatcta 368

<210> 11817

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-F10

<400> 11817

gcgtgaaaca attttgcctt tcgtactcta tatccagaaa acattgcgca ggaggcgttt 60

ctttaataaaa aatcttgaaa atgttatgcg caaatcctc caatccttgg agttctttga 120
 ggaaaatgag aggaagaaac tcgcatatt cacagccctt gcattttctc aaaagctgtc 180
 agggcttcct ccggagacag tgttccagcc attgctcaag gataatctgg ttgccaaagg 240
 gatagtactt tcattcataa ctgagttttt caaggagtac ctgaaggaaa acaccttgga 300
 tgatttgatt gcgcttttga agaaaggaaa aatggaggac aatctgttgg acttttttcc 360
 atcagctaag agatcctctg aggcctttatc tgagcatttc atcaaagaaa gtctgactaa 420
 gccttgtgag tacaatgaaa aga 443

<210> 11818
 <211> 152
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-F11

<400> 11818

caaccactt gctctggcaa acccagcagc gttctaccaa caaccatca ttggtggtgc 60
 cctgttttag attgcttatg agttatagtt caataataaa gtttttttga tgatgtttgt 120
 ggcttcccag aaataagaaa gtacatttct ag 152

<210> 11819
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-F12

<400> 11819

ccgacgcgtc cgagagaaa gtcactcccc aggctgccat ctgaagaaac ttgtccgctt 60
 gatgccacct caaggcagct gaagaacaac aaactggatg aagttaatgc tcaggagaca 120
 ggatcagcta cagggcaggt acaaggaagt gagacggaaa cagattctgt tcagagcgca 180
 actcaagctg gagctaacc tgatgaacag agtgtcgctc agtgaacaga gtgtcgctca 240
 gtgaagatct cgggtggcaa gccaaagtgt ttgtgatgga tgggtgtgctt tatctttgtg 300
 tgatgttgtg cttgtctact agagtgactt gtggcctgta tcatgctgtg ttatactcct 360
 gtttttgttt tcctgcgatt gagcctgtat gttgcttacc aatctagata gcttttgttc 420

ataatctaca gata

434

<210> 11820
<211> 283
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-D7

<400> 11820

ccttcgaagc tgagcccgag aagctttgcg acgctggaat ggaccgttcc tgaagacgcc 60
ccgtcggggcg tttatagggtt gaggcatttt ggtgcctcca aaccactgat tgggtccatc 120
aaacatttta cggggacctc tcgggcgttc gcagtgcgtt aggtagcaca ccgttgcggtt 180
gcgttgcggtt cgacggcaca cctgtcagag aatcgacacc gggtcataata cttactgtgc 240
atacctgccca cagtatatgg acatgttttt ccctatagtt ttt 283

<210> 11821
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-C10

<400> 11821

cccacgcgtc cgatatgaat caagacacaa cgccgaaaag catctcgatc gaagatgcat 60
acaagagcat agttcaaata ttgaaagacc agctgaagaa gctctccttt ctagggaag 120
gagatttctg cctgctgcag ggtacatgcc gaacccaggc ggctcggatt tccgctccag 180
gtcgcccgcc gaatattcag cacaacgcc acaaatgagg tttgatccat tcacaggtga 240
accttacaag tttgatccct tcacagggga gcccatcagg ccagatccga accagcgccg 300
ctcaggaagc ctgtactgat cagattagtt ggagcgatat gccagataag acctgaaac 360
aaagctagat ctggataact cttcttcttg tctgccaagt gtctctgtga ttttgcttgt 420
gggctacaga tcatgtaccc cgagcacca 449

<210> 11822
<211> 439
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-021-Q1-K1-C11

<400> 11822

cggacgcgtg ggcgttggtt cccccctcct gtcccaaata tcacctcctt ccagttggag 60
ctaccgctgc tcgcgttgac tcgcatcttc ctccattcag tgactccttg gatcgggtca 120
gggacacgca ctagcgtatc gtgtcggcgc cgaatcttgc gcgcatttcg cgctattgtt 180
gccccggagg agtggttttg atccaagaaa gtgatcagcc ttcttggttg gatctcctcc 240
cgcaatggcg gcgctcctgg agctgttctt ggactcctct cccgcgccgg tggactggga 300
ggcagaggtc taccggcgt acggggactt cgccgtactc cccttactcg tcgccttctt 360
ccccgccgtc cggttccttc tcgaccgaact cgtcttcgag gttntagcac gaaaatttat 420
atttgaaaag ggacatgat 439

<210> 11823
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-C12

<400> 11823

gtgggttggc ttctcctccc cctccggttc gggttcgggt tcgtgaggtt ctccggggtt 60
cggtttcgtg ggtgagcgga tcgagatggc ggcgtcggat gttgagtacc gctgcttcgt 120
cggcggcctc gcctgggcca cggacgacca ctccctccac aacgccttca gcacctacgg 180
cgaggctctc gagtccaaga tcctcctcga tcgggagacg cagagggtccc gcggcttcgg 240
cttcgtcacc ttctccacgg aggaggcgat gcggaacgcc atcgagggca tgaacggcaa 300
ggagctggac ggccgcaaca tcaccgtcaa cgaggcccag tcccgcggc 349

<210> 11824
<211> 143
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-C2

<400> 11824

cggacgcgtg ggcggactcg tgggctttcg cgttgaaaa aaaaaaaaaa aaaaaggaaa 60

aaggaaaaaa aaaaaaata aaaaataaaa aaaaaaata acatataata ataaaatata 120
 aaaaaaata aataatataa aaa 143

<210> 11825
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-C3

<400> 11825

ccgcacgcgt cgcgccacgc gtccgcctac gcgtccgccc acgcgtccgc ttccattgga 60
 ccaattggcc gcactgaacc ccgctgctta ttgcagcag caaatactac taccatttag 120
 ccagctagct gcagcaaacc gtgcttcctt cttgacacag caacagttgc tgcctttcta 180
 ccagcagttt gcggctaacc ccgcaaccct cttacaacta caacaattgt tgccctttgt 240
 ccaacttgct ttgacagacc cagcggcctc ctaccaacaa cacatcattg gtggtgcctt 300
 ctttttagatt gcttattagt tgtaattcaa taataaaagt ttttgatga aaaaaaataa 360
 tttttagtat tagttaaact aattgtaaaa ccataattaa aaaaaaaaag ggccggc 417

<210> 11826
 <211> 298
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-021-Q1-K1-C4

<400> 11826

ccgcacgcgtg cggctcctggg agactacctc acccacgtcc gccgcgaggg gcgcgcggtc 60
 atggtcaaga accgccagcg caagctcttc accaacatct ccggcgacgg ctcttgggac 120
 tcggacgggtg tttggagcca cgtggtgttc gagcacccca agacgttcgc gacgttgccc 180
 atggacccgg ccaagaagaa ggaggtgatg gacgacctgg acgcgttcgg caacggcaag 240
 gactactacg cgcgcacatcg caaggcgtgg aagcgcggct acctnctgta cgggcccga 298

<210> 11827
 <211> 424
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-021-Q1-K1-C8

<400> 11827

cggacgcgtg ggcaatctcc ccagcaatcc ctagcagaag ccttccatcc tcaactcgctc 60
gatggcccg c acgaagcaga cggcgaggaa gtccaccggc ggcaaggcgc cgaggaagca 120
gctggcgact aaggcggccc gcaagtctgc cctgcgacc ggcggagtga agaagcccca 180
ccgcttcgc cccggcaccg tcgcgctccg ggagatccgc aagtaccaga agagcacgga 240
gctgctgac cgcaagctgc cgttccagcg cctggtgcgg gagatcggc aggacttcaa 300
gaccgaccta cgcttcnaga gctctgctgt ctccgcgctg caggaggcgg ctgaggccta 360
ccttgctggg ctcttcgagg acaccaacct ctgcgccatc cacgccaagc gcgtcaccat 420
catg 424

<210> 11828

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-D1

<400> 11828

ctgaagagga ttggaccgaa gtggtttcgc ggtgtccgaa ggcatggact catcatgggc 60
tggtccacaa caggcttcaa gagagagcgc ggtgactctc ccttggagct tggtcccaag 120
gcggaggatg tcatcaagcc attgaatccg atcaccttac tcttacgctt tctcgtacga 180
acgatatgtg ctgcctacta tggtctggtg cctatttaca tgtggataaa ggaccagatc 240
gtgccaaaag gcatgccaat ctgagtgaag ggaatgagct gcatggaata gaggatagcc 300
aacgtctgaa tcttactctt ctgtatatta 330

<210> 11829

<211> 369

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-021-Q1-K1-D10

<400> 11829

accacgcgt cggcggcatg agctgctacg acgtcagcac aatgtacaaa agcggaccta 60
gaagtgccag cgctaaccag ctgtaatctt ttttgaaatt ggtggttgaa catggtgcag 120
atacagcagg acattgggag atatatagca gacaagattt agagaagctc agattacctg 180
aaagggcact gccttttgac ggagggacag tcgctaatac aacaccataa acagaaagtc 240
agaaattgct gtcagtggac agnacccaaa caactgagat tttgaagcga tcgctcgtag 300
tcaatcacia caatcttctt aagttagtgt agaggaattc ttcttaatgc tggcatctgt 360
caactatgt 369

<210> 11830

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-D11

<400> 11830

aaatttacga ggacaaggac aatgctagga aggatgagat caacactcat cttactgcac 60
ccacgcaaag tggactgttt agcaagtact atgaaaggct caaagagatc cgtgaatata 120
atcggcggaa cccatctgcc cgctttgtca gtacaactga tgactatgaa gagcttctaa 180
aggaggaacc agttattgaa ttcactggcg aggaaacttt tggccgttac cttgacttgc 240
atgagcttta taacgagttc ataaattcca agttcggaac actgatggaa tattcagctt 300
atgttggctg tttctcccag acggacaaga tctcacatag tcataaagct accagaaaat 360
acagagaata cttggaacac attttgaat atctgacatc atttctgtat cgcacagagc 420
cattgcaag 429

<210> 11831

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-D12

<400> 11831

aaaaaaaaa aaaataaaaa aaaaaattaa aaattaaaaa aaaaaaaaaa aaaaaataga 60

aaaaggaaaa aaaaaaatta aaaaaaaaaa aaaaaaaaaa aaatttttta ataaaaaaaa 120
 ataaaaaaaa taaaaaata taacatatat aaaaaataaa aattaaataaa tataaaaaaac 180
 ttataaaaaac aacatacctt ttattaaaat aagcggcccc tttttaaaat tccccatttt 240
 ttcacttggt tttatttcaa taatatcttt ttttatttga cccccaaatt ttttttactc 300
 tttatttttt taaaaatatt ttttt 325

<210> 11832
 <211> 309
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-021-Q1-K1-D2

<400> 11832
 gagcattagc tttatctact ccagagcgca gaagaacccg atcgacacca tgagggtggt 60
 gcgcgttgcc ctcgctctcc tggctctcgc tgcgagcgcc acctccacgc atacaagcgg 120
 cagctgcggc tgccagccac cgccgcgggt tcatctaccg ccgccgggtgc atctgccacc 180
 tccggttcac ctgccacctc ctgtgcatct tccaccgccg gtccacctgc cgccgcgggt 240
 ccacctgcca ccgccgggtcc atgtgccgcc gncgggttcat ctgccgncgc caccatgcca 300
 ctaccatac 309

<210> 11833
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-D3

<400> 11833
 gtttctgac tggttgctgg attgatggct ctaatggaga gtgatcacat tggtcctttc 60
 aagttgggaa acccaggaga gtttaccatg ttggagctag cacagggttg gaaggaaaca 120
 attgacccaa tggcaaccat tgaattcaaa cccaacacag ctgatgatcc ccatatgaga 180
 aagccggata tcaccaaggc taagcaactg ctacattggg agccaaacgt ctctctcaga 240
 gaaggccttc cgctaattgt caaagacttg cgtcaaagga tctcggatga gtaatcgagg 300
 caatgctacg atactggtga ccggttcgat tctgaactat gctgcaaata cagtcagaag 360

ctctttatcg attggagcca tgcagtacaa tgtactgtg

399

<210> 11834
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-D4

<400> 11834

cgacgcgttc gccaatgctc acttgctcct agtgccatta ttccacagtt cctccccgcca 60
gtgacttcaa tgggcttcga acaccagct gtgcaagcct acaagctaca acaagcgctt 120
gcggcgagcg tcttacaaca accaattgcc caattacaac aacaatcctt ggcacatcta 180

accatacaaa ccatcgcaac gcaacagcaa caacaatttc taccagcact aaaccaacta 240
gctgtggtga accctgtcgg ctacttgcaa cagcagttgc ttgcatacaa cccacttgct 300
ctggcataca tagttgcata ccaacaacaa caacaattgc aacagt 346

<210> 11835
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-D6

<400> 11835

catcagagcc agagggtaaa acggaatagt ctattcccag tagtgataaa caaaacgaga 60
gaatcttctc tgtcttcgtg cgggtgtgcct gccatttcca ggcccagctg ttcattctcg 120
aggctccttc tcttgtagtt cgtcgtcctt gcgcagcaga tcgagaggct gaggggagag 180
ggatccatgg agctgggaaa gccccttcg gcgcacagat gtagctacac cgctacctac 240
accactggtt ccataggctt ctcccctcgg gtcgtccgta ccagctggat ccgcgcggcg 300
gctgatggcg gcgacggcgg ggcagaccgg cgacggaaag gtgccagc 348

<210> 11836
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-C1

<400> 11836

cgcgcggcga ccacccgatt cgaagcgtgc ggagagaccg aagaagcggg agagatggct 60
cgtaccaagc agactgctcg caagtccacg ggagggaagg ctcccaggaa gcagcttgcc 120
accaaggctg cccgtaagtc tgccccacc actggtggag tgaagaagcc tcaccgctac 180
cgccctggaa ctgttgccct cctgagatc cgcaagtatc agaagagcac tgagctgctg 240
atcaggaagc tgccctttca gaggctcgtc agggaaattg cacaggactt caaaactgat 300
ttgcgtttcc agagccatgc ggtgcttgcc ctccaggagg ctgctgaggc ataccttggt 360
ggcctcgttg aggacaccaa cctgtgcgcc atccatgcta agcgtg 406

<210> 11837

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-A4

<400> 11837

ggcgcgcatc cagcattaca ccaaagcctt ggaacatgac gacgaggata tttcttattt 60
gagtaaccgg gcagcagttt atattgaaat gggaaagtac gatgaatgca tcaaggactg 120
tgataaggct gtggagaggg gaagagaact tcgtgctgat ttcaagatga tctcaagggc 180
actgacaaga aaaggaacag ctctagtcaa gcttgctaag acctctaagg attttgatat 240
tgccatcgag acctaccaga aggtctaac tgagcatcgg aaccagaca ctcttaaaaa 300
gttgaatgag gctgagagag cgaaaaaaga gttggagcaa caagagtact atgatccaaa 360
attagcagat gaggacagag agaaaggcaa ccag 394

<210> 11838

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-A5

<400> 11838

cggacgcgtg ggcggacgcg tgggctgacg cgtgggggct gggagaggct ttaccgtgga 60
ggagttgaag gctgcgggca ttccaaaaag gcttgctcca accattggca tttctgtgga 120

tcaccgccgc aagaacaaat cccttgaggg gctgcaggcc aatgtccaga ggcttaagac 180
 atacaaggcc aagctgggta tcttcccaag gcgtgctcgc aagggtcaagg ctgggtgactc 240
 tactctggag gagcttacca ctgctaccca ggtacagggt gactacatgc caattactcg 300
 cggtgagaaa cgctctgtaa aggttgtgaa agtcacagat gagatgaaag cgtttgccgg 360
 ctatggcaag c 371

<210> 11839
 <211> 363
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-021-Q1-K1-A6

<400> 11839
 gagaaaccct agaatggaca gactacatgt cgctcgcctt cacacagcac gtaagagcat 60
 gtagacatct tagcatgcac agcaacggaa ggcgggtgaaa ttgacaatta attgactgca 120
 tatccaccca cccatgcaat gcaatgcata cattcatgcg ttcaggatgat cacggagacg 180
 ctgcggatgg gcaacatcat caacgggatc atgcggaagg cggtgcgaga cgtggagggtg 240
 agaggccacc tgggtcccaa gggctggcgc gtctctgtct acttccgcgc cgtccacctc 300
 gacgccgccg tccacgacga cccgcacgcc ttcaaccctt ngagggtggaa ggagaggccc 360
 gac 363

<210> 11840
 <211> 347
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-A7

<400> 11840
 gggcttgcaa gtttggcttc tatgagttct ttaagaagta ttactcggac atcgcagggc 60
 ctgagtatgc ccaaaagtac aagactctaa tctacctcgc aggatctgca tctgctgagg 120
 taattgctga tgtggctctc tgcccttttg aagctgtgaa ggtacgtgtg cagacacaac 180
 ctggatttgc tcgtggattg agtgatgggc tccccaaatt tgtccgatct gaggggtgttc 240

ttgggctcta caagggaatt gttcctctct ggggtcgtca gattccttat accatgatga 300
agtttgcttc ctttgagacc atcgttgagc ttatctacaa gcatgct 347

<210> 11841
<211> 398
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-021-Q1-K1-A8

<400> 11841

gcccagcgca ggcaattaca attgaggctg aagaacgtga agatggcagt cgccgaggca 60
caagatatga tattgacatg accaaatgca ttactgtgg gttctgtcaa gaggcttgcc 120
cagtcgatgc tattgttgag gggcctaact ttgagtttgc cactgagaca cagaggaac 180
tactgtacga caaggagaaa ttgcttgaga atggtgatcg ctgggagact gagattgctg 240
agaacttgag atctgagagc ctctatcgct gaatctgtct tccattatgg ttgataaact 300
gggttcttcc attttccata ttttgctcaa ctagctgatg aataagcana cgatgtatca 360
taacttangt acgatgtttt tgtaccttgg caccatct 398

<210> 11842
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-A9

<400> 11842

gcaaagcggc agtgcgtaga gaggatcgtc gaacagaaca gcatgaagat ggtcatgggtt 60
ctcgtcgtgt gcctggctct gtcagctgcc agcgctctg caatgcagat gccctgcccc 120
tgcgcggggc tgcagggtt gtacggcgct ggcgccggcc tgacgacgat gatgggcgcc 180
ggcgggctgt acccctacgc ggagtacctg aggcagccgc agtgcagccc gctggcgggc 240
gcgcctact acgccgggtg tgggcagccg agcgccatgt tccagccgct ccggcaacag 300
tgctgccagc agcagatgag gatgatggac gtgcagtcg tcgcgagca gctgcagatg 360
atgatgcagc ttgagcg 377

<210> 11843
<211> 187
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-B10

<400> 11843

caacacaatt ctctacgact tatgctaacc atctttcttgc tattctcaat gaatgtaacc 60
tattttgcac ccattgtgat accaaaccag ctgcttactg taactattga tgatcaagac 120
gatcattcca ctcaacaact aatccaaata aatctttcat cttaccatga catttatagg 180
tttttcc 187

<210> 11844
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-B11

<400> 11844

cccacgcgtc cggtcagccc gcaggccgtc ggcggcgggc agtgcccggc gctcgggggc 60
cccgtaacc tcaactgca ctgccctccc cagaaccgca ccgccgaggg cgccgcgtgc 120
cgcgccccgc cggagtactt caagaaccgg tgcccgtca ccaggaccac gcccaccgac 180
gtcgagcccc tgccgcagag ctgccgcgcc ccggggggagc tcaaggatcat cttctgccag 240
gcgaccatcg tcacatgcgg cggcgaagca gagcgcaccg tcctcgccga cagctagaca 300
gatcgagccg tccagctcca ttgcctcca ggctccgctg aatccttaca gtaattgtca 360
tgctttcttt tgctccatgt gtttgtttagc tttggcttcg acgcgcgtgt actccggtgg 420
ttttatttta gaa 433

<210> 11845
<211> 314
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-B12

<400> 11845

gacgtcgcgg agctgcgagc gcggaccaga ggcagacgac ggggagccgg acacggttta 60

cactgaatcg cgcgcgtcgt cgcgtttcgt cccatcgta aagtcgacca aacgtccacc 120
gactcacggc acacttgccc atggagtagg acacgcaacg gtgaccagcc gacttaaccc 180
tggctggagg acaaccctac cagcacagtt cgtcttaact gtacagatac gcgggcgtag 240
actgtccaga ccttcattgc cgtctgactt aacgccacag gcatgtacga tcaggcatgc 300
aaggtcagtt gcag 314

<210> 11846
<211> 315
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-021-Q1-K1-B2

<400> 11846
attcaaccaa ctaggttcat tgaatggaag aatttatttg ccacaacaac aactacggtt 60
caggcagcta ccttctgctt accctcagca attgctttca ttcaaccaac tagcagcatt 120
gaactctact gcttattaac agcaacaaca actactacca ttcagccact tagctcgagt 180
gagccctact acctacttga cacaaccccc ttgtgaatgc agactactag cacactgtga 240
ttgatgataa caccctatct caaatgcacc atttggtgac attaacccca ttttttttga 300
taaaaccagt acttt 315

<210> 11847
<211> 399
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-021-Q1-K1-B3

<400> 11847
cgcacgcgtc cgggcaaaat ggttggtagc aagccccttt atgtagctct tgcgcagggt 60
aaagaagaca gaaaggcaaa gctacaggca caattttcac aaatgcgtcc tggtgcaatg 120
gcgccttcag taggtcctcg catgcccattg tttccacctg gtgtccctgg agttgggtcag 180
cagctgttct atgggtcagcc accaccagcc ttcacaaacc ctcaggctgg atttgctttc 240
cagcaacctc tgatgcctgg tatgaggcct ggtgggtccaa tgccgaactt tatgatgcct 300
atggttcagc aaggacagca accacagcgt cctgctggta gacgtgctgg tggaatgcag 360

cagcccatgc caatgggtgg tcagcaacag gtgttcctt

399

<210> 11848
<211> 303
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-B4

<400> 11848

ccgggggttcg gtttcgtggg tgagcggatc gagatggcgg cgtcggatgt tgagtagcgc 60

tggttcgtcg gggcctcgc ctgggccacg gacgaccact ccctccacaa cgccttcagc 120

acctacggcg aggtcctcga gtccaagatc atcctcgatc gggagacgca gaggtcccgc 180

ggcttcgggt tcgtcacctt ctccacggag gaggcgatgc ggaacgccat cgagggcatg 240

aacggcaagg agctggacgg ccgcaacatc accgtcaacg aggccagtc ccgcggcggc 300

cgt 303

<210> 11849
<211> 137
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-B5

<400> 11849

aaaaaaaaa aaaaaaaaaat aaaaaattaa aaaaaaaaaa aaaaaaaaaa aggaaaaaga 60

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aagaaaaata atgaaaaaaaa aaacaacgaa 120

aacaaaaaaaa aatatat 137

<210> 11850
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-B6

<400> 11850

aggtcgatga aattaggggt ggtgtatctg gtggtagtat tctcagggga gtcttggggg 60

tgaaccagaa gattgaagtt cgccctggca ttgtcatgaa agatgagact ggaaacatca 120

agtgcacccc aatctactca aggattgtct cactgtacgc tgagcagaat gaactccaat 180
 ttgctgtccc aggagggcctt attggtgtgg gaacaaccat ggaccaact ctaacgcgtg 240
 ctgacaggct ggttggccag gttcttggtg aagtaggttc actacctgat gtttacgtag 300
 agcttgagat caatttcttc ctactccgga ggctgttggg tgtgaggacg aaaggtacag 360
 agaaggcagg gaaggtgtcc aagctcacca agggtgagat cctcatgctt a 411

<210> 11851
 <211> 370
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-021-Q1-K1-B8

<400> 11851
 gatcagcaaa gcggcagtgc gtagagagga tcgtcgaaca gaacagcatg aagatgggtca 60
 tcgttctcgt cgtgtgcctg gctctgtcag ctgccagcgc ctctgcaatg cagatgccct 120
 gcccctgcgc ggggctgcag ggcttgtagc gcgctggcgc cggcctgacg acgatgatgg 180
 gcgccggcgg gctgtacccc tacgcggagt acctgaggca gccgcagtgc agcccgcctgg 240
 cggcggcgcc ctactacgcc ggggtgtggg agccgagcgc catgttccag ccgctccggc 300
 aacagtgctg ccagcagcag atgaggatga tggacgtgca gtccgtcgcg cagcagctgc 360
 agatgatgat 370

<210> 11852
 <211> 360
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-021-Q1-K1-B9

<400> 11852
 ccggttcgga attgccgat gcgtccggtg gggttaggaa ggcggcggcc agcggcgaga 60
 gcgcgagagg aagagcagga ggaggggtcg gtcattgacgg ggaaggcgaa gccgaagaag 120
 cacacggcga aggagatcgc cgcgaagatc gacgcggcga cgacgaaccg gggcggcgcc 180
 aaggccgggc aggcggaccg gctggggcag gacaagggcg ggcatgcgaa gctggcggtg 240

ccgctctgcc gcaccccggc gcccgacatc aagtccatgc agatccacca cgaggcgcgc 300
 caccccaagc tccccttcga gccggagaag ctctcaacc tgcactcctn ncgccccgct 360

<210> 11853
 <211> 409
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-021-Q1-K1-A3

<400> 11853

aattgacgga tgcacccacg cgtagcgagc acgcgtccag cggtttttgc agtgcagatc 60
 aacttacttc ggtgggtgcc attgttgatg gcgtgggtggg cgtacacttt cccgatgacc 120

ggagccggca tcgcgtccat acgctactgc accgaggtgg acaacacctt caccaaggcg 180
 ctctgcctgg cgctgtccga gatcgccgtg ctacaggtga ctgcgctgnt cgtcaccacg 240
 ctggtgcacg cgttcgtgct ccggaagctc ttccccaacg acatctgcat cgccatcacg 300
 gaccacaaga tgaagcccat catggagctg cacgagagcc atggccagga cagcaacacc 360
 aacagcaacg acatcgagac cggcgccccg ggcaaacagt gagggacgc 409

<210> 11854
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-H1

<400> 11854

ggacgcggtc agcttccatc tctcgtctc ctccctctac atccacggc cgctaccacg 60
 gtccctctag ctacacggc cgccggcctc tccaaggctt gcacacggaa aaaccttgcc 120
 acgagtcgcc gacactccat accggaagag ctaacgaggt gactccccac cgcgcccatg 180
 ggtgacagcc agtactcctt ctccctcacc accttcagtc cgtcggggaa gtcgtgcag 240
 attgagcacg cgctcacggc tgcgggatcc gggcagacct cgctcgggat caaagctgcc 300
 aatggtgtag tcattgccac tgagaagaag ctgccttcta ttctagtga tgaacatct 360
 gtgcaaaaga ttcaggcact aacacctaatt attggagtgt tctatagtgg gatggg 416

<210> 11855
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-H10

<400> 11855

cagagagcgc cacagatctc gatcctgaag cttacgagcg agttcttacg tactcctcgc 60
 agtcagccat ggcccgtgc tactggcagt cgcagtcctc cgtcggtggc ggctgctata 120
 gctgccgttg ttcccgcata ccttccatca atgatagctt cagtatgtga aaaccagct 180
 cttcaaccct ataggctcca acaagcaatc gcagcaagca acataccttt atcacccttg 240
 tttcaacaat cgccagccct atctttggtg cagtcattgg taaaaacat cagggcacag 300
 cagctgcagc aactcgtgct acctgtgatc aaccaagtag ctctggcaaa cctttctccc 360
 tactctcagc aacaacaatt tcttacattc aaccaactgt ctacattgaa cgtgctgct 420
 tatttgca 428

<210> 11856
 <211> 363
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-H11

<400> 11856

cctagcgaag cgcactagca acgacctaac aacaatggct tccaagacat tatccctcct 60
 tgcgcttctt gccctttttg tgagtgaac aaatgcgttc attattccac aatgctcact 120
 tgctccgagt gccattattc cacagttcct cctccagtt acttcaatgg gcttcgaaca 180
 cccagctgtg caagcctata ggctacaaca agcgcttgcg gcgagcgtct tagaacaacc 240
 aattgcccaa ttacaacaac aatccttggc acatctaacc atacaaacca tcgcaacgca 300
 gcatcaacaa gactgagcc acctagccgt ggtgaaccct atcgctact tgcaacatca 360
 gct 363

<210> 11857
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-H12

<400> 11857

cccacgcgtc cgcccacgcg tccgaaacaa tcatatatgc ttagaactgc tttcatttca 60
aagtaactta tgtacatctg acaaaatgca aactagctac atttctatac tttgtatttg 120
ctttggtttg tgttggcatc agtcacaaaa aaggggggaga ttgaaaggga aatggcctca 180
atcatttcct ataatcgatt ttggtgtttg acgaccatca caaaccttat ggactaacta 240
gtttgcctag ttgatctttt ctcaggtgca taaagtttat atacacatat aaggaaaatg 300
acccttgggc caattctata agtatggggc aagtcaagat tgcaccagcc tgcattgcacc 360
ggactgtctg tgtgcaccgg acagtgtccg gtgcctaagc tgtcgcaccc aacgaatag 419

<210> 11858

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-H2

<400> 11858

cccacgcgtc cgcagactac aaggtgcac tataactact atagcagtag ctcaaactca 60
aaaaattgtc atgaattcct aaggcagcag tgcagccctt tggtaatgcc ttttctccaa 120
tcacgtttga tacaaccaag tagctgccag gtattgcagc aacaatgttg tcatgatctt 180
aggcagattg agccacaata cattcaccaa gcaatctaca acatgggttca atccataatc 240
caggaggagc aacaacaaca accatgtgag ttatgtggat ctcaacaagc tactcaaagt 300
gcggtggcaa tcttgacagc agcacaatac ctaccatcaa tgtgcggctt gtaccactca 360
tactacaaa ataattcatg cagcagcaat gacattagtg gtgtttgcaa ttgaagaatt 420
gtgtctacct agccgttata c 441

<210> 11859

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-H4

<400> 11859

aaacccttct ctttggtgag aaggagggtg ctgtggttgg ctgcaggaac cctgaggaga 60
 tcccggtggg ttcggttggt gctgaatatg ttgttgagtc tactggtgtt ttcactgacc 120
 aggagaaggc tgcagctcac ttgaagggtg gtgccaagaa ggttgatc tctgctccta 180
 gcaaggatgc ccccatgttt gtcggttggtg tcaacgagaa ggagtacaag tctgacatta 240
 acattgtctc caatgctagc tgcaacaacca actgccttgc tctcttgct aaggatcatca 300
 atgacaagtt cggatcggtt gaggggtctga tgaccactgt ccatgccatc actgctaccc 360
 agaagactgt tgatggggcc tcatctaagg actggagggg tggaagggct gctagtttca 420
 acatcattcc cagcagcact ggagctg 447

<210> 11860
 <211> 404
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-020-Q1-K1-H6
 <400> 11860

cggacgcgtg ggttttccaa ctattttggt atttggtgct gataaggaga gccattccc 60
 ctaccagggg gctagagttg catctgccat tgaatccttt gcattggagc agttggaagc 120
 caattctggc cgggctgaag tttctgagtt gactggcccg gatgtcatgg aagagaagtg 180
 cgcttctgct gccatttggt ttgtatcatt ccttccagac atccttgatt caaaggcaga 240
 aggaagaaac aagtaccttg agctcctgct ctctgtagct gagaagttta aaaagagtcc 300
 atacagtttt gtctggacag ctgctggcaa gcaagcta atctcgagaacc aggttggtgt 360
 gggcggctac ggctatccc ccatggtagc tctcaacgtg aaga 404

<210> 11861
 <211> 437
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-020-Q1-K1-H7
 <400> 11861

caacaacaac agtttctgcc atcactgac cacctagccg tggatgaacc tgatcacctac 60
 ttgcaacagc agctgcttgc atccaaccca cttgctctgg cgaacgtagc tgcataccag 120

caacaacaac agctgcaaca gtttatgcc a gtgctcagtc aactagccat ggtgaaccct 180
gccgtctacc tacaactact ttcattctagc ccgctcgcgg tgggcaatgc acctacgtac 240
ctacaacaac agttgctgca acaaattgta ccagctctga ctcagctagc tgtggcaaac 300
cctgctgcct acttacaaca gttgcttcca ttcaaccaac tggctgtgtc aaactctgct 360
gcgtacctac aacagcgaca acagttactt aatccattgg cagtggctaa cccattggtc 420
gctaccttcc tgcagca 437

<210> 11862
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-H8

<400> 11862

cggacgcgtg ggcaaagcgg cagtgcgtag agaggatcgt cgaacagaac agcatgaaga 60
tggtcatcgt tctcgtcgtg tgcctggctc tgtcagctgc cagcgctctt gcaatgcaga 120
tgccctgccc ctgcgcgggg ctgcagggct tgtacggcgc tggcgccggc ctgacgacga 180
tgatggggcgc cggcggggctg taccctacg cggagtacct gaggcagccg cagtgcagcc 240
cgctggcggc ggcgccttac tacgccgggt gtgggcagac gagcgccatg taccagccgc 300
tccggcaaca gtgctgccag cagcagatga ggatgatgga cgtgcagtcg gtcgcgcagc 360
agctgcagat gatga 375

<210> 11863
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-H9

<400> 11863

caaacatgca aaggaggtac gagagagata gcgtgatgcy aagattagaa atagagaaca 60
acgggaacaa gatagtgtaa caaggtcgta tgctcaggat cgtgaggaca aagagagaaa 120
ggaaagacta gaacaagaaa gagagattaa gcaaatgag gaaaaggaaa gagagcaaag 180
aagacttgaa gaggaagag aacttgagcg acataaagaa agagaaagag ctaggcaagc 240

agtggagagg gctacaaagg atgcacggga aagagcagct gttgaagctc gtgcaaaagc 300
 ggagagagag gcacgccaac gttcagaacg tgctgctgtg caaagagccc aacaaggaag 360
 cacgtgagag ggcagcagtg gaggctaaag agcga 395

<210> 11864
 <211> 191
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-A1

<400> 11864

aaggctgcgg gcatgccaaa aaggctagct ccaaccatag gcatttctgt ggatcaccgc 60
 cgcaagaaca aatcccttga ggggctgcag gccaatgtcc agaggcttaa gacatacaag 120
 gccaaagctgg ttatcttccc aaggcctgct cgcagggcca aggctggtga ctctactctg 180
 gaggaacctt a 191

<210> 11865
 <211> 455
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-A11

<400> 11865

gctctggcaa acctttctcc ctactctcag caacaacaat ttcttccatt caaccaactg 60
 tctacactga accctgctgc ttatttgcag caacaactat taccattcag ccagctagct 120
 actgcctact ctgagcaaca acaacttctt ccatttaacc aattggccgc actgaacccc 180
 gctgcttatt tgcagcagca aatactacta ccatttagcc agctagctgc agcaaaccgt 240
 gcttccttct tgacacagca acagttgctg cctttctacc agcagtttgc ggctaacccc 300
 gcaaccctct tacaactaca acaattgttg ccctttgtcc aacttgcttt gacagaccca 360
 gcggccttct accaacaaca catcattggt ggtgccctct tttagattgc ttattagggtg 420
 gaattcaata ataaaggttt ttggatgatg tatgt 455

<210> 11866
 <211> 401

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-021-Q1-K1-A12
 <400> 11866
 gtgatcccat cgacactctc tcaacttcca aatttgaaga tattatgtga agaccaagta 60
 ggagaacaac tcatgggggtg taagcagatt ttctagaaga ggagagcagc acttgatgac 120
 tttgataggt tcaaagtcac gctggcaaag gtcgagaggg gtggtgctat caggcaagag 180
 ctcgctaagt tgaagaagac acccatgact taatggttat cttttagtgg atgtcatgtt 240
 agagtttttg gttctaagtt ggatcagcaa ttcgattgag tgtcgataaa gacagaagta 300
 ctaatatgtt ccctgtgaat acattttaaa ctttatcaag catgggtgtg ctctagatat 360
 tttatcgtga ataatatata atatataagg tagcttgcgt c 401

<210> 11867
 <211> 381
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-021-Q1-K1-A2
 <400> 11867
 gaagcagcag aagaaactgg gcatgaagcc catcgaacag gggagctgga cacaaggggc 60
 gccggctgat ggtacgtaca ttgggtaacc accaccaagc acacatctga ggagaaaatc 120
 caggagtgag gaaatcgaag ctggatgtaa caatagattt tactgtttgc aaatgcaacc 180
 tttgtttttt tttttctggg tgttcttcgt gttggaggtt tttttagctc tgccctagtt 240
 gtgagttgtg acatcttttag ttttaggctg aagtctgaac gatatggggg gagagatcat 300
 gcgtgccccat ggttgtcttg ggattggaca tgcataagtt gagatgttct ctttttctgt 360
 aagagttttc ttttcgatgt g 381

<210> 11868
 <211> 414
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-020-Q1-K1-G9
 <400> 11868

caacaagcaa catagaaagt ggaatccagt agcaacaata gagcaacaat ggcgaccaag 60
atattttccc tccttatgct ccttgctctt tctgcatgtg ttgctaacgc gacaattttc 120
cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaatgata 180
gcttcagtat gtgaaaaccc agctcttcaa ccctataggc tccaacaagc aatcgcagca 240
agcaacatac ctttatcacc cttgtttcaa caatcgccag ccctatcttt ggtgcagtca 300
ttggtacaaa ccatcagggc acagcagctg cagcaactcg tgctacctgt gatcaaccaa 360
gtagctctgg caaacctttc tccctactct cagcaacaac aatttcttcc attc 414

<210> 11869
<211> 394
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-020-Q1-K1-F5

<400> 11869
cggacgcgtg ggcggacgcg tgggctttct ccctactctc agcaacaaca atttcttcga 60
ttcaaccaac tgtctacact gaaccctgct gcttatttgc agcaacaact attaccattc 120
agccagctag ctactgcta ctctcagcaa caacaacttc ttccatttaa ccaattggcc 180
gcaactgaacc ccgctgctta tttgcagcag caaatactac taccatttaa ccagctagct 240
gcagcaaacc gtgcttcctt cttgacacag caacagttgc tgcctttcta ccagcagttt 300
gcggttaacc ccgcaaccct cttacaacta caacaattgt tgccctttgt ccaacttgct 360
ttgacagacc cagcggntct ctaccaacaa caca 394

<210> 11870
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-F6

<400> 11870
caacaagcaa catagaaagt ggaatccatt agcaacaaca gagcaacaat ggcgaccagg 60
atattttccc tccttatgct ccttgctctt tctgcatgtg ttgctaacgc gacaattttc 120

cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaatgata 180
gcttcagtat gtgaaaaccc agctcttcag ccctatagge tccaacaagc aatcgagca 240
agcaacatac ctttatcacc cttgttggtt caacaatcgc cagccctatc tttggtgcag 300
tcattggtac aaaccatcag ggcacagcag ctgcagcaac tcgtgctacc tgtgatcaac 360
caagtagctc tggcaaacct ttctccctac tctcagcaac aacaatttct tccattcaac 420
caactgtcta cactgaacc 439

<210> 11871
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-F7

<400> 11871
gaccaactag caacatagaa agcacaatag tgtaccaaca atggcagcca aaatatttgg 60
cctccttatg ctccttggtc tttctgcaag tgctgctacg gcgaccattt tcccgcaatg 120
ctcacaagct cctatagctt cccttcttcc cccgtacctc tcaccagtgt tgtcttcagt 180
atgtgaaaac ccaattcttc aaccctacag gatccaacat gcaattgcat caggcatctt 240
acctttatca cccttggttc tacaacaatc atcagcccta ttacagcagt tacctttggt 300
gcatttattg gcacaaaaca tcagggcaca acaactcgtg ctagcaaacc ttgctgccta 360
ctctcagcaa caacagttac ctttggtgca tttgttgga cacaacatca aggcaaca 420
actacaacaa c 431

<210> 11872
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-F9

<400> 11872
cggacgcgtg ggggcggaga tgcttcgcat atgtggtggc tggcaaccca caggaaggcc 60
ttgaggatgc aaagagagcc gaggttattg catcggactg gccgatggga cactacctgc 120
aggccttggc acttcacaac ctgggaaggg aggctgaaag ccaagaagca ctgaagaatg 180

gcactgcctt ggaagctgca atgaatagta gagctagaac tgtatagccc tgaatttgtg 240
 ataccctgtc ctgcttgtac ctagatcgcc tccctccaat gcttcgtcac cagtaggggc 300
 tgtttttggt attccctaac ttgtatcggt atttccccta gtttcacaag tcgaaaaaac 360
 tcctaggggc tagtttggat actttgggat tagagtgttt tgaagggtt ggag 414

<210> 11873
 <211> 425
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-020-Q1-K1-G10
 <400> 11873

cccacgcgtc cgattttatc taggaaaaaa ggtgacaaaa ggtaaaggag aatcagctga 60
 agcagttctt cccagcaagg acgatctgag gaagaccatt actgaaatcc tcaagaaagt 120
 tgacttcaac acggcaactt tcagtacat tcttaagaag ctcggttaaga ttttgagaca 180
 tgttttactg attttcagtc gttcatgcta gatgcactaa caaactttat cttgtagaca 240
 atcactacaa aatggatctg accccaaaga aagaagccat caaagttatg atccaagacg 300
 agttaaccaa gctatcagag gaggatgaag aaggagaggg agacgaagac accgggaaga 360
 aacagcagca gcctcaggcg caggagatcg aggcattgagg atccgcggaa ccccgtagct 420
 gtagt 425

<210> 11874
 <211> 336
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-020-Q1-K1-G11
 <400> 11874

gggttggctt ctctccccc tccggttcgg gttcgggttc gtgaggttct ccgggggttcg 60
 ggttcgtggg tgagcggatc gagatggcgg cgtcggatgt tgagtaccgc tgcttcgtcg 120
 gcggcctcgc ctgggccacg gacgaccact ccctccacaa cgccttcagc acctacggcg 180
 aggtcctcga gtccaagatc atcctcgatc gggagacgca gaggtcccgc ggcttcggct 240
 tcgtcacctt ctccacggag gaggcgatgc ggaacgccat cgagggcattg aacggcaagg 300

agctggacgg ccgcaacatc accgtcaacg aggccc

336

<210> 11875
<211> 409
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-020-Q1-K1-G12

<400> 11875

caaattacaa ggcagtgcag tcactttcac tcactacgct aaactatgag agagcttcca 60
tcttgctaca atacttcaag ggatgtggtg aagttcttgt gccacggaag gtttcccagc 120
aggaacatat tcttccttct tgggtcaaact ggaggaaact gaacagaatt aaactgccac 180
atgagcgtgt gcacttgggt gctaaagcct cgatgcttac acacagtgcac atgttggtga 240
ttgcaaaaac aagatgccac tatgaaaacg cgaactactt tntgctggat aaacaaggca 300
tcgtttacgt tttcatccac aaggaggcaa caccagccga tgttntaagg tccttcgtac 360
acgggctcgt gctagctagc tcgacacaga acagcaaacc tcagcactt 409

<210> 11876
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-G2

<400> 11876

ccctctccga aatcaaggta gcgtacaccg ctgcagtttc tagagccctc tctgccacgc 60
gtgatcccac tagtcacaat gcctgccctc gccaaagccg cctcccgcac cgccaagccc 120
gccgcggctc cgaagccgaa gcctgccgcc gccaaagccga aggcggccac cgctgggtgcc 180
tcccacccgc ettacttcga gatgatcaag gaggctatca cggcgctcaa ggagaggacc 240
ggctccagct cgcaagcgat cgccaagtat gtgggggaca agcacggcgc gtctctgccg 300
gccaaacttca agaagatgct ttccatccag ctccgtgggt ccgcagccaa gggcaagctc 360
gtg 363

<210> 11877
<211> 441

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-020-Q1-K1-G3

<400> 11877
 ggatctggcg tcgccccgggc cggacgggtg accgctccac cgcgaggcac ctgttcgagg 60
 tgatcaactc cagggaggac gtgctcaggc gcctcatccg ccgctgcgcc tacctcaagt 120
 acgtcgaggc gcggctcgga gaccgcacgc tgtatgccga cgagatactc aaggacggct 180
 tctgcctgaa catgatcgag acgccgctct gccctctcaa ggctcgctact aacctgcnaag 240
 aggccgtctg ggatgccgac atcgctcgtga atgggggtgcc gtccaccgag acgagggagg 300
 tgtttgatga gatcagcgag tattggaagg agaggatcag tgtccccgtg ataatttccc 360
 tcgccaaggg aattgaggcc tcgttggatc caatacctcg tatcattaca cctactcaaa 420
 tgattagctc tgcaactgga g 441

<210> 11878
 <211> 351
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-020-Q1-K1-G5

<400> 11878
 cccacgcgtc cgcgagcgcg tgggttgaag aggatgacaa ggctgctatt gctgaagtgc 60
 agagggcaac gaagaagaag caatgccctg aaaatgggtga tgagtctcaa cttcaacttg 120
 ctgtaagaaa ttcacctact gaatccttgg aaagtgaaga tgaagatggt ttccctgtat 180
 cattttctga atcaaagaag agttctgaga ttatttcaaa caagaatgtg ggaaaagaca 240
 aggagactag caacaaagac ctgaaaagaa aaagtggacc catagcgacc gtggtgaatc 300
 ttcaaggggg gtaaaagctg aaaatgaatg ggcattcaag gaaaaggaaa a 351

<210> 11879
 <211> 410
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-020-Q1-K1-G7

<400> 11879

atcgtcgaac agaacagcat gaagatggtc atcgttctcg tcgtgtgcct ggctctgtca 60
gctgccagcg cctctgcaat gcagatgcc tgccctcgcg cggggctgca gggcttgtag 120
ggcgctggcg ccggcctgac gacgatgatg ggcgcggcg ggctgtaccc ctacgcggag 180
tacctgaggc agccgcagtg cagcccgtg gcggcggcgc cctactacgc cgggtgtggg 240
cagccgagcg ccatgttcca gccgctccg caacagtgt gccagcagca gatgaggatg 300
atggacgtgc agtccgtcgc gcagcagctg cagatgatga tgcagctnga gcgtgccgct 360
gccgncagca gcagcctgta cgagccagct ctgatgcagc agcagcagca 410

<210> 11880

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-G8

<400> 11880

gtgcgcacct ccgagatctc cacgaagttg tggtaacatg gggctcacct tcacgaagct 60
cttcagccgg ctcttctcca agaaagagat gaggatcctt atggttggtc tcgatgcagc 120
tggtaagacc accatcctct acaagctcaa gctcggagaa atcgtgacca ccatccctac 180
aatcggggtt aatgtggaga ctgttgaata caagaacatt agcttcactg tctgggatgt 240
tggaggtcag gacaagatca ggccattgtg gaggcactat ttccagaaca cccaaggcct 300
tatctttgtt gttgatagca atgacagaga tcgtgttggt gaagcaaagg atgagctcca 360
caggatgctg aacgaggatg aattgagga tgctgtcttg ctcgttttcg caaacaagca 420
agatctacca aatgc 435

<210> 11881

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-F4

<400> 11881

cggggttcgg tttcgtgggt gagcggatcg agatggctgc gtcggatgtt gaggaccggt 60

gcttcgctcg eggcctcgcc tgggccacgg acgaccactc cctccacaac gccttcagca 120
cctacggcga ggtcctcgag tccaagatca tctcgatcg ggagacgcag aggtcccgcg 180
gcttcggctt cgtcaccttc tccacggagg aggcgatgcg gaacgccatc gagggcatga 240
acggcaagga gctggacggc cgcaacatca ccgtcaacga ggcccagtcg cgcgggcgcc 300
gtggaggcgg cgcggtggg tacgggtgtg gccgtggagg cgcggtgtac ggcggtggcg 360
ggcgccgtga tggcgggcg ggctacggcg gtggcgcggt ctacgggtggc ggcgggcggt 420
acgggtgtgg tggcgggcg 438

<210> 11882
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-E12

<400> 11882

gccgcagctc ggatcttatg acggcatatt cttcgacacg tacggggaat actacgagga 60
catgagagag ttccaccagc accttcctaa gctactgaag cccggaggca tctactcgta 120
cttcaacggc ctctgcgcg acaacgcgtt cttccacgcc gtgtattgcc agctcgtggc 180
gctggagctc gcgaaccttg ggtactcgac gcagttcatc cctctgccgg tcaaagattg 240
cctggcggag gaggtctgga agggcgtgaa gcggaagtac tggcaactgg acacctacta 300
cctccctgct tgccagtcag aatcagaatc taccatcagt tagtgatgag ttatttctag 360
tctgctctg aagttggttg tagctaagta catttttgtt cagacatgct gtgttatgaa 420
t 421

<210> 11883
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-E2

<400> 11883

cccacgcgtc cgcccggttc cgcgtgcctt tccccaccta ctctcgcggc tctcgccagc 60
cagtctaggg ttctgggtccc ggcgtgctta tccgcccccg ccggccatgt cgaagcaagg 120

agggaaggcc aagccgctga aggcgccccaa ggccgacaag aaggagtacg acgagacgga 180
 tcttgcatat ctgcagaaga agaaagatga ggaaaaagca ctgaaggagc ttaaggccaa 240
 ggcacagaag ggcgcgattg ggggctcggg tctgaagaaa agtggaaaga aatgagactg 300
 gtcacccgtc tccaatacct agaggatgat aaggcagctg tctatctgtg ttgcgcttca 360
 ctaagtgtga ttgtaacagt ggtacctctt gtgttctgtg ttccgcgatg ttgcagttgg 420
 gtgcttgatc gaaagatggt tcaacc 446

<210> 11884
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-E3

<400> 11884
 ggtcatcaga gcccgcttgc aggttttact tttgaaactt tctaagtttt catgtccatg 60
 cttatttttg aattttaatc tcttctgagt ttgattatt tataactctt atgtgtggtt 120
 ttccagcaac ggcctggcac tgatggtact ccaaagtact caaatagctg gcatgtagtg 180
 aaggaaactg caaagtatga aggcgtccgt ggattttaca ggggcatcac gtccaatcta 240
 ctgaaaaacc ttccagctgc gtccctcacg ttcgtggtgt atgaaaatgt tatcaaacta 300
 ttcaaagcaa ccaaggagaa gacgtagcta ctcatataat ccaggagtac tatgcatggt 360
 ctgacatttc tgagttcaaa cgatgcctat aatttccatt ccacgtcaag cccatatttt 420
 atccatttaa catc 434

<210> 11885
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-E4

<400> 11885
 cccacgcgtc cgggtgggctt gagctgcgtg ctcgagctca cgttggtttta gcaaagtgcc 60
 atttatccga tctgaaattc tcagttctcg aagatcctga agctgttttg gatcctctga 120
 accaagccac tgaagacctg caagcattgg agtaccacga gatggcagca gaggcgtact 180

atctgaaggc aatggcatac aaccatctcg gcaagcttga tgagagggag gaagccgcgg 240
ctcgtttcaa ggatcacgtc actgcccttg agaccccgca taacgaagag gactcgctta 300
agtactgaga cccaagacca ttgtttattg gcaagcacgc cccactgcca gagactaaag 360
agggcgtggg ggccttctgg acccgcatgg tggcactggc aggctacaat gctacactga 420
ggcgaatggc gtttgctgcc atg 443

<210> 11886

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-E5

<400> 11886

cccacgcgtc cgcacacaaa gagctcagtc ataggacgcc cttgaaagct gaagctggag 60
gctctataga acagtttgta cagtgcggca gcagtctcta ctatggtatg tgccaataag 120
aggaactccg ttccagagtt tcgtctactg ccaagggcct cgtgtttgtg ggtgggttga 180
ataaacacgc aatttgagat gacgctgttt tgaccatgaa tttagattga acgcacaacg 240
gcaaaaagga ttttatgtga agttgtcgat gggttgaaaa agatgtgacc atctctgacg 300
gtctgacctg cttcattcat gaggaattga ggataaagca catttgaac 349

<210> 11887

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-E6

<400> 11887

cagaaacaca ccaagcgaag cacattatca acaacctaac aacaatggct accaagatgg 60
tateccctect tgcgcttctt gcgctttttg cgagcgcaac aaatgcgttc attattccac 120
aatgctcact tgctccaagt tccattatta cacagttcct cccaccagtt acttcaatgg 180
gcttcgaaca cccagctgtg caagcctata ggctacaaca agcaattgcy gcgagcgtct 240
tacaacaacc aatttcccag ttgcaacaac aatccttggc acatctaaca atacaaacca 300
tcgcaacgca acagcaacaa caattcctac cagcactgag ccacctagcc atgggtgaacc 360

ctgccgccta cttgcaacag cagttgcttg catcaaacc acttgctctg gcaaacgtag 420
 ttgcaaacca gccac 435

<210> 11888
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-E9

<400> 11888

ttgttgagc catttgctat agcgctcatg agttatatac tcaacaacga cgtcatttgg 60
 atgatgttcg ggcagcgcta aaactactag ctttcatgaa cagagtctta tacctacaac 120
 agcaacaact gatttaatat aaccactata gaagagggtg atgcacctac ataccatgca 180
 acaacaattg ctgcaacaga ttgtaccagc tctgactcag ctagctgtgg caaaccttgc 240
 tgcctacttg caacagctgc ttccattcaa ccaactgact gtgtcgaact ctgctgcgta 300
 cctacaacag cgacaacagt tacttaatcc actagcagtg cctaaccat tggtcactgc 360
 cttcctacag cagcaacaat tgctaccata ca 392

<210> 11889
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-F1

<400> 11889

gcttcttcgg ccggcgacat ggcggagaag ggcgcgttgc agtcggcgag ggagtgggtg 60
 gtcgaccacg agctccgggc cgtcgggacg ctgtggctca gcggcacgt cggtccatc 120
 gcctacaact ggtccaggcc gggcatgaag accagcgtca agatcatcca cgccaggctg 180
 catgctcagg ctctcacgct ggctgccttg gctgggtccg cgctgggtgga gtactacgac 240
 caccagcaag ggtcaggatc gaaagtac caatatgcaa agcagttcct ttcattctgat 300
 agcaatagcg gccaaacaaa ggagtagcta gccagtgtcc ttgcgaaatg caagcagcgg 360
 agtgggcgtt atttctgat caaatatttt gcctatggca cattctgtgg aaactttgac 420
 gg 422

<210> 11890
 <211> 420
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-020-Q1-K1-F11

 <400> 11890

```

cccacgcgtc cgccacgcg tccgcaattg cccaattgca acaacaatcc ttggcacatc   60
taaccctaca aaccattgca acgcaacaac aacaacaaca gtttctgcca tcaactgagcc  120
acctagccgt ggtgaaccct gtcacctact tgcaacagca gctgcttgca tccaacccac  180
ttgctctggc gaacgtagct gcataccagc aacaacaaca gctgcaacag tttatgccag  240
tgctcagtca actagccatg gtgaaccctg ccgtctacct acaactactt tcacttagcc  300
cgctcgcggg gggcaatgca cctacgtacc tacaacaaca gttgctgcaa caaattgtac  360
cagctctgac tcagctagct gtggcaaacc ctgctgcta ttacaacagt tgcttcatt  420
  
```

<210> 11891
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-020-Q1-K1-F12

 <400> 11891

```

gcaacataga aagcacaata gtgtaccaac aatggcagcc aaaatatttt gcctccttat   60
gtccttgggt ctttctgcaa gtgctgtac cgcgaccatt ttcccgcaat gtcacaagc  120
tcctatagct tcccttcttc ccccgtaact ctaccagcg gtgtcttcgg tatgtgaaaa  180
cccaattctt caacctata ggatccaaca ggcaatcgca gctggcatct tacctttatc  240
acccttggtc ctccaacaat catcagccct attacagcag ttacctttgg tgcatttatt  300
ggcacaaaac atcagggcac aacaactaca acaacttgtg ctagcaaacc ttgctgcta  360
ctctcagcaa cagcagtttc ttccattcaa ccaactagct gcattgaact ctgctgcta  420
tttgc                                             425
  
```

<210> 11892
 <211> 431

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-020-Q1-K1-F3
 <400> 11892
 cgggtctgga actggtacca ccacaacatc gggcgcgcg cgatcctgct ggccatcggc 60
 aacatcttgc tgggcctctc gatcgcgag gagaccagcg cctacatcgt ctctacggc 120
 gtgttcgtcg ccgtctgggt gctcgccgtc gccgccttcg agatgaagcg ctgctacgcc 180
 gacgacgact gatgagctag cgacacgtaa gaggcacagt tcgggtccaa cagctgacgg 240
 cgaagtttgg tgcgttaaa ctgagcggtc cacggccagc tgggacgtga cagacacagc 300
 agcgccgagc gcgcgcgcg gcacacacac accattcttg ttgttccgta gctcgagct 360
 ggacagtga ttattgggtc gaggagggcg tgctttggtt ggctaattaa aaaaaaatg 420
 tttttttttt t 431

<210> 11893
 <211> 421
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-020-Q1-K1-E11
 <400> 11893
 cccacgcgtc cgccacgcg tccgtccatc cgccgagggg ggtgaggacg aaagcgttga 60
 tgacacagct gtgaagggtg ttgatattgt tgacacattc cgtctacagg agcaacctcc 120
 ttttgacaag aaatcatttg tgtcttacat caaaaaatac atcaagaatc tctgtgtgt 180
 gttggagcca gagaaagcgg atgagttcaa aaagggtgtc gaggggtgcaa ccaagtttct 240
 ccttagcaag ctgaaggacc tccaattttt tggtggtgag tccatgaagg atgatgcgtc 300
 tgtggtattc gcctattaca aggatggtgc cactaatccg acattcctct atttctctca 360
 tgggtctttaa ggagatcaag tgctaggcgt gcgcgaaaat tagttacca tgttgggtac 420
 t 421

<210> 11894
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-C9

<400> 11894

cccacgctc cgcccacgcg tccgcccacg cgtccgccca cgcgtccgcg gacgcgtggg 60
cgcaaattgc accaagaaat ccatcgagag gccgtcgaca ggggaattaa tggcgctcgtc 120
gtctagcagc agccaccgcc gcctcatcct cgcagccgcc gtctgtctct ccgtgctcgc 180
ggctgccagc gccagcgccg ggacctcctg cgtgccgggg tgggccatcc cgcacaaccc 240
gctcccgagc tgccgctggg acgtgaccag ccggacctgc ggcatcgggc cgcgcctccc 300
gtggccggag ctgaagagga gatgctgccg ggagctggcg gacatcccgg cgtactgccg 360
gtgcacggcg ctgagcatcc tcatggacgg cgcgatcccg ccggggcccg acgcgc 416

<210> 11895

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-D1

<400> 11895

cgcattcaa gcgcaagacc tcctcgcggc tatggcgaag cgtctgatcc cgtcgctgaa 60
ccgggttctg gtggagaagc tgctgaagcc cagcaagagc gccggcggca tcctcctccc 120
ggagaccacc aagcagctga acgccgctaa agtcgttgct gtgggccctg gtgatcgtga 180
tagggatggc aagctgatcc ctgtatctct gagcgaaggc gacactgttc tgcttccgga 240
gtacgggtggg acagaagtga agcttgacaga aaaggagtac cttcttttca gagagcacga 300
catactgggg aagctcgagg agtagctctg gactgttaaa atggagtgtt ttgaaagtag 360
gtatgcaaga gttttgccac ggcttatctt tttttttttt gtacggggga acaaagtaa 420
aacacaa 427

<210> 11896

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-D10

<400> 11896

cggacgcgtg ggcagaaaca cacctagcga agcgactag caacgaccta acaacaatgg 60
 ctaccaagat attatccctc tttgcgttc ttgccctttt tgtgagcgca acaaatgcgt 120
 tcattattcc ccaatgctca cttgctccta gtgccattat tccacagttc ctccctccag 180
 ttacttcaat gggcttcgaa caccagctg tgcaagccta caggctacaa caagcgcttg 240
 cggcgagcgt cttacaacaa ccaattgccc aattacaaca acaatccttg gcacatctaa 300
 ccatacaaac catcgcaacg catcagcaac aacaatttct accagcacta agccaactag 360
 ctgtggtgaa cctgtgcgc tactttgcaa cagcagttgc 400

<210> 11897
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-D11

<400> 11897

cctttactac tcttgccaag aatgctgcct tacctcaaga acaagaatcc acggatccga 60
 gcaaaagcat cagtgtgttt cagcaagagt gtaccacgcc ttgatgtggt gggaatcaaa 120
 gaatatggta tggataagct catccaaatt gcggaaccc aacttagcga ccagcttcct 180
 gaatcaaggg aggctgctcg caacctggca ctggaactgc aagcattcta tgagaagtct 240
 caggcctcaa cttctgacga acacgaggtc gaggcctctg cctcgccaga tgctgaatca 300
 tgggaggctt tctgccagtc caagctctcc gcattaagtg cccaagccat tcttcgtgtg 360
 acctctacta ctacaaaaga gtgcgtcacc tctgccccaa aagaagggtt ggctgtg 417

<210> 11898
 <211> 362
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-020-Q1-K1-D12

<400> 11898

ccaactagca acatagaaag cacaatagtg taccaacaat ggtagccaaa atattttgcc 60
 tccttatgct ccttggctct tctgcaagtg ctgctacgac gaccattttc ccgcaatgct 120

cacaagctcc tatagcttct cttcttcccc catacctctc accagcgttg tcttcagtat 180
 gtgaaaaccc aattcttcaa ccctacagga tccaacaggc aatcacagca ggcattctac 240
 ctttatcacc ctgtttctc caacaatcat cagccctatt acatcaatta cttttggtgc 300
 atttattggc acanaacatc agggcacaac aactacaaca actcgtgcta gcaaaccctg 360
 ct 362

<210> 11899
 <211> 445
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-020-Q1-K1-D2

<400> 11899
 gagcgccctc cgcacccgga agcacagttc cggcgtctgc cagcgcccga tgccgaggct 60
 gggcacgtct tgccagtttt gaaggtgtag aggagaagcc accaaggtaa aaaacaaatg 120
 gatgtatacc tccgttttag ctctgggtgc gtgcaggtgc agcagccagc aggtattata 180
 taaaaatgct tgtaggtgta tggagccagt agaagagggt gtccgagaat aagatcgtcg 240
 atggcacagt tgagatgagc ttggcttgca ggagagtggg gtgtttgtgc atagtgtttt 300
 gacatatgag atgcgttggt cttttctttt tttccctttt tcttttttgt atatagtgag 360
 tactcctgcc gntctgcaac accgggctcg atctcggccg ttacctgatg gtggtgagtg 420
 tgcttggcat cggctgtggt ctgtc 445

<210> 11900
 <211> 407
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-020-Q1-K1-D3

<400> 11900
 ggtattttta ccagcagcta agttcgcggc atttttagtcc ctgtaagcgg taagcagctc 60
 tgtagcgtga gatagatggc caagcgccgg tacgtacgtg tagtgtctgg tcttctcact 120
 gagtgtacta taaagagtta atataggagc tgaccctgtg aaccgcgctg atggatgcat 180

atgcttagtg caaacctgca ttttgtctct atttgaccat ctgtacacgc atgatcgct 240
 tgcttgctg gtgtctggtc tgctgatggc agcgcaaagc gaaaggcaaa tgcattgaag 300
 ggaaggcaag tggaggttg agttgatgct gncgngtgcg ggcgcgattt gctgtncctt 360
 tncggtgtgc ggtgttgact gacgcgcgcg agcacgaaac tggggga 407

<210> 11901
 <211> 444
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-020-Q1-K1-D4
 <400> 11901

cagaaacaca cctagcgaag cgcactatct acgacctatc aacaatggct tccaagacag 60
 tatccctcgt tgcgcttctt gccctttttg tgagtgaac aaatgcgttc attattccac 120
 aatgctcact tgctccgagt gccattattc cacagttcct cctccagtt acttcaatgg 180
 gcttcgaaca ccagctgtg caagcctata ggctacaaca agcgcttgcg gcgagcgtct 240
 tagaacaacc aattgcccc ttacaacaac aatccttggc acatctaacc atacaaacca 300
 tcgcaacgca gcagcaacaa gactgagcc acctagccgt ggtgaaccct atcgnctact 360
 tgcaacaaca gctgcttgca ttcaaccac ttgctttggc aaacgtagct tgatacaaca 420
 acaaccacag ttgcaacagt ttct 444

<210> 11902
 <211> 435
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-020-Q1-K1-D5
 <400> 11902

cactagcaac gacctaacaa caatggctac caagatatta tccctctttg cgcttcttgc 60
 cctttttgtg agcgcaacaa atgcgttcat tattcccaa tgctcaattg ctctagtgc 120
 cattattcca cagttcctcc ctccagttac ttcaatgggc ttcgaacacc cagctgtgca 180
 agcctacagg ctacaacaag cgcttgcggc gagcgtctta caacaaccaa ttgcccaatt 240
 acaacaaca tccctggcac atctaaccat acaaaccatc gcaacgcaac agcaacaaca 300

atttctacca gcactaagcc aactagctgt ggtgaaccct gtcgcctact tgcaacagca 360
 gttgcttgca tccaaccac ttgctctggc aaacatagtt gcataccaac aacaacaaca 420
 attgcaacag tttct 435

<210> 11903
 <211> 314
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-020-Q1-K1-D7
 <400> 11903

ctcgaacctt ctctgtcttt tggccagttg cgtaaaccct aagtgccttg ctaccgtggg 60
 ccgtggcaag gtgatggcga tggaccgga cgcggtggcg aaagccttga ttgagcacta 120
 ctaccggacg ttctacacca accatacga gctggtgggg ctgtatcagg agacctacat 180
 gctcaccttc gacggccaga tgtccatggc ccatccgtca ttgccgtcaa gctcggatct 240
 ctttccttga cgtctgcgat caccagatcg tcaccgtcgt ctgacagtcg ttggagcccc 300
 atggaggcat gctc 314

<210> 11904
 <211> 436
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-020-Q1-K1-D8
 <400> 11904

gggacacgag cggatccgag cgaagcgacc gcgcgtccgc gccctccgtc gccaccacca 60
 tccgctccgc cgccgtcca tcgtcgtcca cattgctgcc atccgctctg ccgtactcc 120
 atcgtcgtcc ttccccgaag cagtcgtgag cgagacgtga ggcgacggtg cctccacca 180
 ccgccaccgt ctcgatttg tcgtcattca ccgccatctc tgccctcagtt tgctgtcctc 240
 caccaccgtc ttccgcggca ctatgtacaa tacaatgttg tctccaagac ccagtacatg 300
 gtctttccca agatccagta caagatcgtc tcctccaaga tttgaacccc aacgctagtg 360
 agagtggagg caacacatga aaccaacatg gagaagaaaa atgaaatggc attccacatg 420
 aagcttgtga aaaaga 436

<210> 11905
<211> 169
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-D9

<400> 11905

cggacgcgtg ggcggacgcg tggggtgttc taccaacaac ccatcattgg tgggtgccctc 60
ttttagattg cttatgagtt atagttcaat aatgaagttt tttagaaatg tacttttctta 120
tttctgggaa gccacaaaca tcatccaaaa aataagaaag tacatttct 169

<210> 11906
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-E1

<400> 11906

ccgagactga aaacggcatc agtagcagac gcaggcgacc acgaggagtg acggcatcag 60
ctgcggcagc gacgccaac aacggcacct catgggcgcc gacgacgacg acgctgccgc 120
ctgccgctgt ggcggcgcca gagagggagg cggagatcga gcaggccatg cgcgcccgcg 180
tctcagactt caagaagcag gccgactcct tgacccttga aggcgttaga agagcaetga 240
aaaaggacct gggtttggag acatattcac ttgatgcaca taaaaacttc ataaatcaat 300
gtgtagacaa ggtttttgct gaatcccatg atgaaaatgc aaatgataat gcttcagagg 360
atcctgaaag ccaaagatat ttatccaaag aagagaaagg 400

<210> 11907
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-B11

<400> 11907

cattcttgtg cttctggctc atcctoctga tactgtgtac aatatgcaaa aaacgctagc 60
tttttacagc tcgacctcca ataactcgaa gctccacgaa taactccatt gtggcctcaa 120

gattgaccat ggttggttga ttgccaaccc ccaccagttc aagggtcccta gctgggttcct 180
 caacaggaaa aagtactaca aggatggtag gttctctcag gttgtttcca acgcccttga 240
 caagaagctc agcttaggga tgactctagg ctgaagaaga ccaggaacca ctatggtttg 300
 tcactactgg ggtctacttg tccgtggcca gcacaccaag actacaaaaa ggcatggaaa 360
 gactataggt gtgtcggaga atagataaag tcaatttggg gcctaccttg gatat 415

<210> 11908
 <211> 360
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-020-Q1-K1-B3

<400> 11908
 acgcaaattg caccaagaaa ccatcgagag gccgtcgaca ggggaattaa tggcgtcgtc 60
 gtctagcagc agccaccgcc gcctcactct cgcagccgcc gtctgtctct ccgtgctcgc 120
 ggctgccagc gccagcgccg ggacctctg cgtgccgggg tgggccatcc cgcacaaccc 180
 gctcccgagc tgccgctggg acgtgaccag ccggacctgc ggcatcgggc cgcgcctccc 240
 gtggccggag ctgaagagga gatgctgccg ggagctggcg gacatcccgg cgtactgccg 300
 gtgcacggcg ctgagcatcc tcatggacgg cgcgatcccg ccgggcccgg acgcgcagct 360

<210> 11909
 <211> 369
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-020-Q1-K1-B4

<400> 11909
 ccgacgcgtg cgcgcaagag ttcgaaatga gcgctaagag gatgctattg ctgcccttga 60
 gtctgcagaa cttacagatt agataggagc tgatcatgaa aacggagatc atcgaaccta 120
 taaggtgaat gaagcaattg cagcatgtaa tagagctgaa tgacgctggg gttaaaaatc 180
 gggatcctat atgtgatggc agtcatcaat acaaagcatc tggacacatg atgtacagca 240
 acgcacgcta tctgggagct accactgagc tgttacaaa catttctgcc tacctattag 300
 caacaagctg tgagtaggat gtaaccaact gtgtaaactg aaccgtgctg ctgatgtgca 360

gcatcaact

369

<210> 11910
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-B5

<400> 11910

cggacgcgtg gggcagctca ggcaggtgga gccgcagcac cggtagcagg cgatcttcgg 60
cttggtcctc cagtccatcc tgcagcagca gccgcaaagc ggccagggtcg cggggctgtt 120
ggcggcgcag atagcgcagc aactgacggc gatgtgctgg ctgcagcagc cgactccatg 180
cccctacgct gctgccggcg gtgtccccc ctgaagaaac tatgtgctgt agtatagccg 240
ctggctagct agctagttga gtcatttagc ggcgatgatt gagtaataat gtgtcacgca 300
tcaccatggg tggcagtgtc agtgtgagca atgacctgaa tgaacaattg aaatgaaaag 360
aaaaaagtat tgttcc 376

<210> 11911
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-B7

<400> 11911

aacacaccaa gcgaagcaca ttagcaacaa cctaacaaca atggctacca agatattatg 60
cctccttgcg cttcttgccg tttttgcgag cgcaacaaat gcgttcatta ttccacaatg 120
ctcacttgct ccaagttcca ttattacaca gttcctccca ccagttactt caatgggctt 180
cgaacaccca gctgtgcaag cctataggct acaacaagca attgcggcga gcgtcttaca 240
acaaccaatt tcccagttgc aacaacaatc cttggcacat ctaacaatac aaaccatcgc 300
aacgcaacag caacaacaat tcctaccagc actgagccac ctagccatgg tgaaccctgc 360
cgcctacttg caacagcagt tgcttgcatc aaaccactt gctctggcaa acgtagttgc 420
aaaccagcca c 431

<210> 11912
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-B8

<400> 11912

cccacgcgtc cgccacgcg tccgctcgta ctggtagccc gaaccctagc tagcaggtcg 60
gaggcgagag agcagccatg gcgcgggtgcc tcgcgctcgt ctccctcctt ctctcgggcc 120
tcgcctccgc cgcctccgct gccgatgcgc cctttgtcgt cgcgcacaag aaggtttcgc 180
tctcccgccc caagccgggc gtcgagcgcg tcgccgtctc cctcgacctc tacaaccagg 240
gatccgcgac tgcctatgat gtgtcactta atgacgactc ttggccaaca caagcatttg 300
agcttgtcac tggagagaaa tcgaagacat tggaaaggct tgaccctggt gccactgcta 360
cacacacata tgtcctggag accaaaacac agggcagggt ccagggttca ccagctatta 420
ttacgtaccg tggt 434

<210> 11913
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-B9

<400> 11913

cagtttccca gttgcaacaa caatccttgg cacatctaac aatacaaacc atcgcaacgc 60
aacagcaaca acaattccta ccagcactga gccacctagc catggtgaac cctgccgact 120
acttgcaaca gcagttgctt gcatcaaacc cacttgctct ggcaaacgta gttgcaaacc 180
agccacaaca acagctgcaa cagtttctgc cagcgtcag tcaactagcc atggtgaacc 240
ctgccgccta cctacaacag caacaactgc ttcatatag cccgctcgct gtggccaatg 300
cacctacata cctgcaacaa caattgttgc aacagattgt accagctctg actcatgtag 360
ttgtggcaaa cccttgtgcc tacttgcaac ag 392

<210> 11914
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-C1

<400> 11914

cacaatatag acgaaaacca atcggagact aatggctcgtc gcactcgcac gagggctgag 60
tcctttccag ctgcgaccgc ggttgaacag cgtttcgttg tttcctcccc aacttccaac 120
acgcctcgat ctagatccac ttttcccccc cttctccttc cggctctccc cccgagactc 180
ttctattcat ataggcgggt aggcgtccga ggcctcgttt gttctcgggt tctcgtctcc 240
aagggtgcta ctccgtccgc gcttgggtctg ctctcgctct tccggaggcc gcggcgcaac 300
atggcgaaga tcaagccgaa ggccttgctc gcgcaaagca aggtgaagaa ggtccccggc 360
caaatcagcg tggccacgat cgtcacctac atgatcctcg gcgtcctggt cgt 413

<210> 11915

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-C10

<400> 11915

aaaaaaaaa aaaaaaaatt aaaaaaatat aaaaaaaaaa aaaaaaaaaa aaaaaaaaag 60
ggaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaataa agattaaaat ttaattacat aaaaaaataa taaaaaaaaa ataattatta 180
ataaaaacat aaaaaaaaaa aaacatgaca gtagttaaaa aatttacaac ttgaaaaaac 240
tataatattt ccaaattaaa tcgtatttgt ccatattccc atttggcaat ttgccttaat 300
cgcgaaatagg accgaccctt ttgcctttca taaatttttaa 340

<210> 11916

<211> 421

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-020-Q1-K1-C12

<400> 11916

aaggacatca gggcacaact tctacaactt cttgtgctag caaaccttgc tgcatactgg 60

cancaacatc agtttcttcc attcaaccaa ctggctgcat tgaactctgc tgcttatttg 120
 caacaacaac taccattcag ccagctagct gctgcctacc cccagcaatt tcttccattc 180
 aaccaactag cagcattgaa ctctgctgct tatttacagc tgcaacaatt gctgccattc 240
 aaccaacttg ctttgacaaa cccagcagtg ttctaccaac aacctcatcat tgggtggtgcc 300
 ctctttttaga ttgcttatga gttatagttc aataatgaag ttttttggat gatgtttgtg 360
 gcttcccaga aataagaaag tacattnta gattcttatg tgcttctagt ctccaaatgt 420
 g 421

<210> 11917
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-C2

<400> 11917
 cccacgcgtc cgcccacgcg ttcgcccacg cgtccgcgga cgcgtgggct attctgctgc 60
 cctggtgctc tccagtacat cagcgggtgtg atcctcttcg aggagaccct gtaccagaag 120
 accaaggatg gcaagccttt tgttgatgct ctcaaggagg gaggcgtcct ccctggcatc 180
 aaggttgaca agggcaccat tgaggttggt ggcactgata aggagaccac cacccaaggc 240
 catgacgacc ttggcaagcg ttgcgccaag tactacgagg caggtgcccg ctttgccaag 300
 tggcgcgctg ttctcaagat tggccctaag gagccatcac agcttgccat cgacctgaac 360
 gctcagggtc tggctcgcta tgccatcatc tgccaggaga atggtctggt gccaatgtt 420
 gagcctgaga tccttggtga tg 442

<210> 11918
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-C3

<400> 11918
 gttaaattgg tcgtggatga catctcatat gactttgtaa aaggtgccac tgtggattat 60
 gaggaggaac ttatacgttc agcgttcgtg gcagaggatga gtatacttat ggttggtact 120

cagcaagtgg gtgaatatgc aaggtttcaa caaatcctag tgctgttggg ggctgcagct 180
gcaagagttc tttcatggtg aaatagcttc aattaccttg aagagatcaa taattggaaa 240
tagcattctg tagcgaatca tacgctttgg atctgagtgt acaattgtta ttttttggta 300
gttctgaaga cgtttctttt tgagttttgt tactgttggg aacatcatca caaactgtct 360
ggttcaatct gtatccctct aacttgatgat agttgtgata tgatgacaag tttatgtaca 420
taatcttgta gctatt 436

<210> 11919
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-C4

<400> 11919
cttacgtctt cgcattcatg ttcccaatgg ggctcgggtc tgcagcaagc atacgcgtgt 60
ccaacgagct tgggtgcagga cggccacgcg aggcccgctt ggcgactcgg gtgggtcatgc 120
tcctggcctt ctccctgggc gtctcggaag gccttgtcat ggtgctggcg cgcagcctgc 180
tcggctacgc ctacgccaac gacaagcaag tcgccttgta cacctctagg ttgatgccga 240
tcctcgccgc ctccaccctg tttgactgcc tcagtgcggt cctatcaggt gttgtcaggg 300
gctgtggcgg acaaaagatg ggccgcctta tcaacgttgc ggcattctac attgtcggca 360
tcctgtagc gtccgttttc gccttcgttc gtcacctcgg tggaatgggt ctttggtttg 420
ggatcttggt cgagtagc 439

<210> 11920
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-C5

<400> 11920
gctaaagctg tggctactga gtgcaaaaca acttttttca atattttctgc ctgcgtcgatt 60
gtaagcaagt ggcgcggtga ctcgagaaa ctagtcaaag tgttattcga acttgcaagg 120
catcatgcac catctactat tttccttgat gagattgatg ctatcattag tcaacgtggg 180

gaagctcgta gtgaacatga agctagccgg cgattgaaaa ctgagctatt aatacagatg 240
gatgggttga ctaagacaga tgagcttggt tttgttctag cagcaacaaa ttaccatgg 300
gagttgatg cagcaatgct gcgtcggctg gagaagcgta ttcttggtcc attgccagag 360
ccggatgcta gacatgctat gtttgaagag ctctgccat atacacctgg cacaatggag 420
attccctatg a 431

<210> 11921
<211> 422
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3059-020-Q1-K1-B10

<400> 11921
cggacgcgtg ggcggacgcg tgggcgcct ctcgtccag ccgcttcaca gcgccggcgc 60
tcgcctctcc gactgccgcg agaatgccgt tcaagagggt cgtggagatc gggcgcgtgg 120
cccttgtaga ctacggcaaa gactacggcc gcctcgtcgt catcgtcgat gtggtcgacc 180
agaacagggc acttgtaggac gccctgata tggtcagggt ccagattaac ttcaaacggc 240
tctcacttac cgacatcaag attgacatca aacgtgtccc caagaagtca accttgatca 300
aggctatgga ggaagctgat gtgaagacta agtgggagaa cagctcatgg ggcaagaagc 360
tgattgtcca gaagaggagg gctgcactca gtgactntga caggttcaag gtcagtctgg 420
ca 422

<210> 11922
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-H7

<400> 11922
gaaagttatg agtcagttgc aagaactgat accaacgggc ctcctctac acaatacggg 60
cgtacattat ccgtctggac taaggataac attacagaac cgaacaggat gactagggca 120
aacgcgcca atggctgaga atctccagtt gcgatgtgaa tggccgtagc caatcacact 180
acatgccgac cgacgcacac ggcacacca atgaccgtac tcctcgtcca accagcaggc 240

gactggaacg tcatagaccg cgacatcatc actgctcacg gcaccgccat agacgtcaac 300
 tacactgtca ccaacttacc cagcgatagc accttactg acgacgcggg actgggcctc 360

<210> 11923
 <211> 394
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-019-Q1-K1-H8

<400> 11923

catggacttt ccccagttga cgatgacatt gcctgatggc cgtgaggagt ctgtcatgaa 60
 gagaacaaca ctggtggcta acacatcaaa catgcctgtc gctgctcgtg aagcttccat 120

ttacactgga attacaattg ctgagtatct cctgatatg ggctacaacg tcagtatgat 180
 ggctgactcc acctnccgtt gggctgaggg attgctgag atctcagggc gtttggctga 240
 aatgcctgct gatagtgggt acccagctta actggctgac gtttggcatc cttttatgaa 300
 cgtgctggta aggtaaaatg tctgggaagt ccagacagga atggcagtgt cacaattgtt 360
 ggagctgtct ctctctctgg tgggtatctt tcag 394

<210> 11924
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-A1

<400> 11924

atgccgctga acaatacgaa caaatctttc agtgggcctt catcgatcga ccctatgtga 60
 tgtaaaaaaa aaggaccaa gtggtggttc cttgaagatc atcagttcat catcctatag 120
 taagctgaat gatgaaagaa aaccctgtga cattacatgg aaggcagacc ggctattggc 180
 tccattgtct caatgtctgc tttggctgcc ttgcctcgat ggaccggatg cagtgaggaa 240
 tccagccgaa cgacagtttg aaggatagga aggggagctg gaagcagtca cgcaggcagc 300
 ctgcgcgtga ttcatatgga acaagctgga gtcagtttct gctgtgccac tactgttta 360
 ccttaagatt attacctggt gttgtgtcct ttgctcgta gggctgataa cgtaatgact 420

cattagaaaa tcatg

435

<210> 11925

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-A10

<400> 11925

ggagaggggtt gagctgcttg acggttttga ctcgatcat ggtgtgcagc tctatcagat 60

agagagctga cgtgaggtgt gagacgcgga tcgtggagta ctactcagta ggagatcaag 120

aggaaggagg tggggagggg aagaaggcga tagccgggga ggatggtgct tgtgcttgct 180

ctgggggatc tgcacatccc gcaccgggag cccgacctcc ccgccaatt caagtccatg 240

ctcgtgcccc gcaagatcca acacatcatc tgcactggca atctctgcat caaggaagtc 300

catgactacc tgaaaagcct ttgccctgat ctccatatta ccagaggtga acatgatgag 360

gatgctcgat acccagagac taagacactt acaattggtc agtttaagct tgggct 416

<210> 11926

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-A11

<400> 11926

cggacgcgtg gggggcgacc attttccac aatgctcaca agctcctata gtttcccgtc 60

ttcccccgta cctctcacca acggtgtctt cggatgtga aaaccaatt cttcaacct 120

acaggatcca acaggcaatc gcagctggca tcttaccttt atcacccttg ttctccaac 180

aatcatcagc cctattacag cagttacctt tgggtgattt attggcaca aacatcagg 240

cacaacaact acaacaactt gtgctagcaa accttgctgc ctactctcag caacagcagt 300

ttcttccatt caaccaacta gctgcattga actctgcttc ttatttgcaa catcaacaac 360

taccattcag ccagctatct gctgcctacc ccagcaatt tcttccattc aaccaact 418

<210> 11927

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-A12

<400> 11927

cggttcgtg aggttctccg gggttcgggt tcgtgggtga gcggatcgag atggcggcgt 60
cgagatgttg agtaccgctg cttcgtcggc ggctcgcct gggccacgga cgaccactcc 120
ctccacaacg ccttcagcac ctacggcgag gtcctcgagt ccaagatcat cctcgatcgg 180
gagacgcaga ggtcccgcgg cttcggcttc gtcaccttct ccacggagga ggcgatgcgg 240
aacgccatcg agggcatgaa cggcaaggag ctggacggcc gcaacatcac cgtcaacgag 300
gccagtccc gcggcgccg tggaggcggc ggcggtgggt acggtgggtg ccgtggaggc 360
ggcggtacg gcggtggcgg gcgccgtgat ggcggtggcg gctacggcgg tggcggc 417

<210> 11928

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-A2

<400> 11928

gtcactcgat caacatcgac tgtggacttc aatagcacca ttgcgatccc actgtcggcg 60
attatatgtt gcgtctccat gcgcagcgcg ctctctgcgt gcgtgctgat cccgacacga 120
ttctctcact gtacacacgc tcctatatcg ctctgactt ttccataca caccatacca 180
gctgtgttca aggtgtgcga acacacattt gttacactgt aggcgataca acgcggtcgc 240
agagctctgc tcacatctat aacactcgtg tta 273

<210> 11929

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-A4

<400> 11929

cccacgcgtc cgaaaaaaaa aaaaaaattt aaaaaaatt aaaaaaggac ggaccttccg 60
gggtatccgg gccaacctac cgttccctgc aatgcaatag ctttctata gtgtaacgta 120

acctaaattc actgccctgg ccttaacacc acaacgactg gaaaaacccat gccctgcccc 180
aactcaactt aattgcatta catcccattt tcttcacctg agctatcgcc aaagaggcca 240
ggcccgttcg gattgcccac cacttcagca gcccaaacgg aaat 284

<210> 11930
<211> 432
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-020-Q1-K1-A5
<400> 11930

cccactcgtc cgcggaactcg tgggcgggtct cgtggggcaa catagaaagc acaatagggt 60
~~accaacaatg gcagccaaaa tattttgcct ccttatgctc cttgggtcttt ctgcaagtgc 120~~
tgctacggcg accattttcc cgcaatgctc gcaagctcct atagcttccc ttcttccccc 180
gtacctctca ccagcgggtgt cttcgggtatg tgaaaaccca attcttcaac cctacaggat 240
ccaacaggca atcacagctg gcattcttacc tttatcaccc ttgttctctc aacaatcatc 300
agccctatta catcagttac ctttgggtgca tttattggca caaaacatca gggcacaaca 360
actacaacaa cttgtgctag caaaccttgc tgctactct cagcaacagc agtttcttcc 420
attcaaccaa ct 432

<210> 11931
<211> 182
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-020-Q1-K1-A7
<400> 11931

cccactcgtc cgcccacgcg tccgcccact cgtccgattg ctccctttttt ttcttctatg 60
gttggacttg agtgcgtgtt tcgtatttgc actctgcggt gtactgccgt taaggcaaat 120
cagttgtttg caagtttgag tgctattggg ggccgttgat tacatacctg tcttttgcac 180
ct 182

<210> 11932
<211> 397
<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3059-020-Q1-K1-A9
 <400> 11932

```

cactgacgcc ttgcatggtg aacactgtta cgtaccttaa tattcataga tcaataggag   60
aacctattga ggatcgtagc acgattccaa gataacctaa tgcacataca gagggatact   120
ctcaaaaggc aaacattgat gcaacggtga aaaaattttc agataacttc acaattatgt   180
tgatccatta tgatggccgg acaactgagt gggatgaatt tgagcgggtca ataagggtg   240
cccatgtgag tgtcacaaaa cagaccaaat ggtggtatgc caaacgattc ctacatcctg   300
acattggtgc ccgctacgac tacatattga tgtgagatga agatcttggc gtagaacatt   360
ctaattgcaga ggcgtacatt tagctcgtta ggaagca                               397

```

<210> 11933
 <211> 444
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-019-Q1-K1-H6
 <400> 11933

```

cccacgcgtc cgcaaagcgg cagtgcgtag agaggatcgt cgaacagaac agcatgaaga   60
tggtcatcgt tctcgtcgtg tgcctggctc tgtcagctgc cagcgctctt gcaatgcaga   120
tgccctgccc ctgcgcgggg ctgcagggtt tgtacggcgc tggcgccggc ctgacgacga   180
tgatggggcg cggcggggtg taccctacg cggagtacct gaggcagccg cagtgcagcc   240
cgctggcggc ggcgcctac tacgccgggt gtgggcagcc gagcgccatg ttccagccgc   300
tccggcaaca gtgctgccag cagcagatga ggatgatgga cgtgcagtcc gtcgcgcagc   360
agctgcagat gatgatgcag cttgagcgtg ccgctgccgc cagcagcagc ctgtacgagc   420
cagctctgat gcagcagcag cagc                               444

```

<210> 11934
 <211> 447
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-019-Q1-K1-G2

<400> 11934

cccacgcgtc cgccccacgcg tccgctacta tactatactc taggaagcaa ggacaccacc 60
gncatggcag ccaagatgct tgcattgttc gctctcctag ctctttgtgc aagcgccact 120
agtgcgaccc atattccagg gcacttgcca ccagtcatgc cattgggtac catgaacca 180
tgcatgcagt actgcatgat gcaacagggg cttgccagct tgatggcgtg tccgtccctg 240
atgctgcagc aactgttggc cttaccgctt cagacgatgc cagtgatgat gccacagatg 300
atgacgccta acatgatgtc accattgatg atgccgagca tgatgtcacc aatgggtctg 360
ccgagcatga tgtcgcaaat gatgatgcca caatgtcact gcgacgccgt ctgcgagatt 420
atgctgcaac agcagttacc attcatg 447

<210> 11935

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-019-Q1-K1-G3

<400> 11935

attctctgca tactggagaa acaggcaaca tcgattctct gacctccctc cacccaagca 60
tggatggcat tgaaggccaa acaacagtaa ggaactcacc atttgtgcaa caagcagatg 120
tcactatggt cgatgggcat gacaccaagg agcagacact cccttcacc tctggcatga 180
ccgattcttc gagcggcagc gcctcaagcg agcctacttt caaggggaac ccaggacgtg 240
ccctcaaaga ccgaagcagc cctgcactga ccgtgaaagc tacctacaat ggcgacaccg 300
tccggttcaa gtttgtgcca gcaaggggct ggtaccactt gctggaagag atagcaaaga 360
ggttcaagct gacggctgga gcattccagc tcanatacaa ggacgatgag gacgagtggg 420
tgatcctggc gaacgatg 438

<210> 11936

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-G5

<400> 11936

```

gcactgcac cgcaccgtgc tgcgcgacga ggggcctagc gccttcttcg tttcctacgg 60
gacaaccgtg gtcatgaacg caccctacac ggccgtccac tttgccacct acgaggcggc 120
caagcggatg ctcggggaca tggccgccga ggaggagtcc cttgccgtac acgccactgc 180
tgggggccgca gcagggggcac ttgccgctgc ggtcaccact cccctcgatg ttgtgaagac 240
gcagctacag tgccaggggtg tgtgcggctg tgaacgcttc tcaagcagct caataggaga 300
cgtgttttaga acaatcataa agcgagatgg gtattccggg ctcatgaggg gatggaagcc 360
aagaatgctg ttccatgcac ctgcagctgc aatatgttgg tctacatacg aggccctaaa 420
agtcattttt c 431

```

<210> 11937
 <211> 446
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-019-Q1-K1-G6

<400> 11937

```

cggacgcgtg ggtacaggct tacttcgcag caaatgctgc tgctcaggcc tcgaggagat 60
cctcaccggtg tgtgaccaat gaagaagtcc agaaggctgc tgctgctctc aagggtctctg 120
accaccgccc tgcgaccaac gttagtgcta gattggatgc ccagcagaag aagcttaacc 180
tccccatcct tcccaccact acaatcggtt cgttcccaca aaccgttgag ctgaggaggg 240
tccgcccgtga gtacaaggca aaaaagatct ctgaggagga atacgtcact gccatcaagg 300
aggaaatcaa caaggtcggt aagctccaag aagagcttga cattgatgtg cttgtgcatg 360
gcgagcctga gagaaacgat atggttgagt acttcgggtga gcagctctcc ggttntgcgt 420
tcactgccaa tggctgggtg cagtct 446

```

<210> 11938
 <211> 387
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-G7

<400> 11938

gttcgtgagg ttctccggcg ttcggcttcg tgggtgagcg gatcgagatg gcggcgtcgg 60
atgttgagta cegatgcttc gtcagcggcc tcgcctgggc cacggacgac cactccctcc 120
acaacgcctt cagcacctac ggcgaggtcc tcgagtccaa gatcatcctc gatcgggaga 180
cgcagaggtc ccgcggcttc ggcttcgtca ccttctccac ggaggacgcg atgcggaacg 240
ccatcgaggg catgaacggc aaggagctgg acggccgcaa catcacgctc aacgaggccc 300
agtcccgagg cgcccggtga ggccgcccga gtgggtaccg tgggtggcacg tggaggcggc 360
ggctacggcc gtggcgggcg ccgtgat 387

<210> 11939
<211> 446
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-019-Q1-K1-G8

<400> 11939

cgatgagtgc acacgacggc ttgccaaatt gggccttgag tatgtgggga agcacacgca 60
tgatagcttg ttgtttaacc actacgaggt ctggtttgaa ttccgcaggc caaaagttta 120
gatcttgatg gtacagaaag agagagtggg tggcttctgt gatgcaattt tggcagtttc 180
aagcacagat taagccatgc cttgtactgt ttgaacacta ctgggacctg acttgagatt 240
gagattgatg ttcgctcggg gcctaattca agcatatgca tatacaccaa aagtcatgat 300
tgagcaatgc tgtgggtgctt cagtgtgggc ttcccagttt cattcgggta gtgggtggatg 360
aaggctntaa gttttattag caccgattac tgtatgttct ataacttcag taacatttct 420
ggtagaaact atgtgggtag ctgatg 446

<210> 11940
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-G9

<400> 11940

agaccaacaa gcaacataga aagtggaatc cagtagcaac aacagagcaa caatggcgac 60

caagatattt tccctcctta tgctccttgc tctttctgca tgtgttgcta acgcgacaat 120
 tttccctcaa tgctcacaag ctccatagc ttccttctt ccccatacc ttccatcaat 180
 gatagcttca gtatgtgaaa acccagctct tcagccctat aggcaccaac aagcaatcgc 240
 agcaagcaac atacctttat cacccttggt gtttcaacaa tcgccagccc tatctttggt 300
 gcagtcattg gtacaaacca tcagggcaca gcagctgcag caactcgtgc tacctgtgat 360
 caaccaagta gctctggcaa acctttctcc ctactctcag caacaacaat ttcttccatt 420
 c 421

<210> 11941
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-H10

<400> 11941

ggaactacct caacttcgac ctccagcaggc tgggtgtccc gccggagctc acgtacctgg 60
 acctgtccca caacctcatc cgcggcaccg tgccgctgtc gctggagcgc ctgtccacgc 120
 tgcagaagct ggacctcagc tacaaccgcc tgtgcgggcc gtcaccaag ggccacggcg 180
 tcatcaagca cgggtgcaag ccgtacgcgc acaaccagtg cagcaaaggg accccgctcg 240
 cgggatgcca ggacctggag tgagtgcgcc ggtggccatg gttttctata ctctgctctg 300
 ctctccctcg ccggcggttct tttcgtgtcc caatcttgaa ggacgacggt acggtgcctg 360
 gtttagctat agacaaaaaa aggtacggcc gcgtggtggc ggtgctaata tgcttagcca 420
 cgccacgcg c 431

<210> 11942
 <211> 415
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-019-Q1-K1-H11

<400> 11942

ctctgttggc gatcctagtt ctccaggccc ttctggtctc tacggccgtg gccaaaggac 60
 ctgcagggcc gaagaagcag tgctggtgcg gcgagtgcac cagctggctg ggcgtgtgga 120

cctgcgacga cctcctcacc aagtgcgccg ccacctgcaa gaactgcgtc cccgtctcca 180
 cggacaaggg cgccaccaag tacagatgcc ggcacttcct ccccgaaaac tgcggctgca 240
 agatccacta gactcatcca cagcggcaca gccgatggat ccttccatgc tctacgtcc 300
 gtccgccttg ctacaagcag gcagccacca ataagctagc tcttggtggn tgtttgcatg 360
 tttgattggg tgtcccttcc cagtcgagat ggaataatgt caggcgcacg tacag 415

<210> 11943
 <211> 417
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-019-Q1-K1-H12

<400> 11943
 ctacgaccgc ctctctcttg cgtcggcaac agcagcgag ccagtagccc agtactcgtt 60
 gctccacgcc gccgctcaaa accggcagaa gtaagaacgg ggagggaagc acgccccaaa 120
 cgttccgagg tttcgctctt cggagcgcac caacgccacc cggagcgact cgccaccggc 180
 gcggagaagg agggcgagg ctaggcgatg gcggacgaga atgaggctgg gaagaaagag 240
 gaagaggaat ttagcacagg ccctctgtca gtactaatga tgagtgttaa gaacaacacc 300
 caggttctca tcaattgccg caacaacaag aagctgcttg gccgggttcg tgcttttgat 360
 cgccactgta acatggtgct tgaaaacgtg cgggagatgt ggacagaggt cccaag 417

<210> 11944
 <211> 420
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-019-Q1-K1-H3

<400> 11944
 caagtccta tagcttcctt tcttcccccg tacctctcac cagtgttgtc ttcagtatgt 60
 gaaaacccaa ttcttcaacc ctacaggatc caacatgcaa ttgcatcagg catcttacct 120
 ttatcacctt tgttcttcca acaatcatca gccctattac agcagttacc tttggtgcat 180
 ttattggcac aaaacatcag ggcacaacaa ctcgtgctag caaaccttgc tgctactct 240
 cagcaacaac agttaccttt ggtgcatttg ttggcacaac acatcaaggc acaacaacta 300

caacaactcg tgctagcaaa ccttgctgcc tactctcagc aacaacagtt tctgccattc 360
aaccaactag ctgcattgaa ctctgctgct tatttgcaac aacaactagt actaccattc 420

<210> 11945
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-H4

<400> 11945

accggtgcgg aatatccagg ctgtgaccca cgttgctttg agagacctag cggcctacta 60
ccaacaacac atcattggtg gtgcccgtt ttagagtgtt tattagttgt aattcaataa 120

taaagttttt tggatgatgt atgtggccaa ccagaaataa gaagttacat ttccagattt 180

taatgtgata ttggtctcca aggggtgttcg ataattactt ttcctaagat tgggagtaac 240

aagcttttaa tcaaagata aataatataa aaaacaaaca agataaaatt gatgcatatg 300

aaggcac 307

<210> 11946
<211> 425
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-019-Q1-K1-H5

<400> 11946

gtttgattct gcaaaagcta tggccttcag caatgtgcct actcgtgatt ggattaagga 60

tgccatcttt aagactctga ttgcaaatgg aatgttcaat aatgctcata taaggctcac 120

gctcaccgtt gggaaaaagg tgacatctgg aatgagtcca gctttcaatc tttatgggtg 180

tgccttgatt gtgcttgag agtggaaacc accagtttat gataactctc atgggataaa 240

attggttact gccaccacac gtcgaaattc tccaaatagt atagattcca agatacatca 300

caacaatctt atcaacaata ttctggcaaa gatagaaggt aatcttgccc aggctgagga 360

tgccattatg ctagataagg atggctttgt atcagaaaca nacgcaacan atatttttat 420

ggtca 425

<210> 11947
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-G12

<400> 11947

cggacgcgtg ggggtggtgaa ccctgccgcc tacctacaac agcaacaact gatttcatgt 60
 agccctctcg ctgtggttaa tgcacctaca tacctgcaac aacagttgct gcaacagatt 120
 gtaccagctc tgactcagct agctgtggca aaccctgctg cctacttgca acagctgctt 180
 ccattcaacc aactgactgt gtcgaactct gctgcgtacc tacaacagcg acaacagtta 240
 cttaatccac tagcgggtggc taaccattg gtcgttgccct tcctacagca gcaacaattg 300
 ctgccataca accagttctc tttgatgaac cctgccttgt tgtggcagca acccatcggt 360
 ggaggtgcca tcttttagat tacatatgag atgtactcga taatggtgcc ctcatagccg 420
 cat 423

<210> 11948
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-E9

<400> 11948

gagacgcatt ctatgagagt tgagaccttc ttcctgatct atgctataca tgatgcaggg 60
 aaatatgcat accttgcatc aatgggcatt tatgtcttca agaaagatgc acttttagac 120
 cttctcaagt caaaatatac tcaattacat gactttggat ctgaaatcct cccaagagct 180
 gtactagatc atagtgtgca agcatgcatt ttacgggct attgggagga tgttgggaaca 240
 atcaaatcat tctttgatgc aaacttggcc ctactgagc agccttccta gtttgatttt 300
 tacgatccaa tgacaccttt cttcactgca ccccgatgct tgccctccgac gcaattggac 360
 aagtgaaga tgaaatatgc atgtatctta catggctgct tactgagaga atgcaacatt 420
 gag 423

<210> 11949

<211> 413
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-019-Q1-K1-F10

<400> 11949

caaattgcac caagaaatcc atcgagaggg cgctcgacagg ggaattaatg gcgtcgctcgt 60
ctagcagcag ccaccgccgc ctcatcctcg cagccgccgt cctgctctcc gtgctcgcg 120
ctgccagcgc cagcgccggg acctcctgcg tgccgggggtg ggccatcccg cacaaccgc 180
tcccagagctg ccgctggtac gtgaccagcc ggacctgcg catcgggccg cgctcccgt 240
ggccggagct gaagaggaga tgctgccggg agctggcgga catcccggcg tactgccggt 300
gcacggcgct gagcatcctc atggacggcg cgatcccgc gggcccgac gcgcagctgg 360
agggccgnct agaggacctg ccgggctgcc cgcgggaggt gcagagggga ttc 413

<210> 11950
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-F11

<400> 11950

gagatcgccc aggacttcaa gaccgacctc cgcttccaga gctccgccgt cgccgcgctg 60
caggaggcgt ccgaggccta cctcgtcggg ctcttcgagg acaccaacct ctgcgccatt 120
cacgccaagc gcgtcaccat catgcccaag gacatccagc tcgcccgcg tatccgtggg 180
gagagggcct aggcgtcgtc ccggtggagg tggaagtagt agtggccgtt tctgtcatca 240
ctgtctggct agaaggtgta gagatgtgcc gggttctgta gtttgggtta tcggtcaa 300
catgatgtag ttgggtctac cctgctgtaa tttaactatg actatgcaat ggcaatgaag 360
ttctcggtta tcagttcccg 380

<210> 11951
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-F12

<400> 11951

gcccttgaag cccatgcagc tcccaactgc aagggtctgg tggttgcaa cccagcatac 60
accaatgctc ttatcttgaa agaatttgct ccatctattc cagagaagaa cgttacttgc 120
ctgacccgctc tggaccacaa cagggtctct ggccagattt ctgagagact taatgtccaa 180
gttagtgatg tgaagaatgt tatcatctgg ggtaaccact cgctctctca gtaccctgat 240
gttaaccatg ccacagtga gacttccact ggggagaagc ctgttcgtga gcttgtctct 300
gatgacgagt ggcttaatgg tgaattcatc acaactgtcc aacagcgtgg tgctgcaatc 360
attaaagcga gaaagttctc cagtgtcttc tcggctgcta gctctgcttg tgaccacatt 420
cgtgattgg 429

<210> 11952

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-F2

<400> 11952

caggaggccc ggatcctggg atgcgcttac ctgccccctc tctctgtctc gtggttctgc 60
tgaacgagca ctgcctgcg ctcttctctc tctcgtggcg acgactgggt gaccgccggc 120
gccccaggcc tgaggcctcc atcttcgggc ccttcaactgg ctacgagcac caccagagga 180
ttatggattg gctggggcag aagcgcgcg agatgctgat gcagggtgctg ctggtggcgt 240
ctgctgtggc ggcgttctg gtgggctacg tgcgcgcgga cttccagctc atgctgctcg 300
tctacgccgg cggcgctcgtg ctcacagcgc tcgtcacctg ccccaactgg cccttcttca 360
accgtaacct gctcaagtg 379

<210> 11953

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-F3

<400> 11953

gaacagttat ggcaactgac atgtctcacc gcctgggggtg gatagatgac tccatcagag 60

aacgtgtggt tgacatacta aagcaagcca aacttcccat tgcacctcct gagaccatga 120
 ccgtagagaa gtttaaaaac atcatggctg ttgacaagaa ggttgctgat ggtctgttga 180
 gactcatcct tctgaaagga ccactagggt gctgtgtatt tacgggggat tatgagggga 240
 atgcactcga tgaaacccta catgcattct gcgacaactg agaacatccc agttttggac 300
 atcacttctg tatgctagta ctaggctatg tatcaatcag agaaaatatt gtggtgtaca 360
 ttatcttcac tgccctcattg gtatattttt gtcagaaata atggtatatt ggtttaagt 420
 ctggtttgag tttgtag 437

<210> 11954
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-F4

<400> 11954

gagcacacta agcgaagcgc actagctcaa cctaacaaca atggctacca agatatggtc 60
 cctccttgcg cttcttgcg cttttgagcg cgcaacaaat gcgtgcatta tttcacaatg 120
 ctcactagct gctagttcca ttattccaca gttcatacca ccagttactt caatggcctt 180
 cgaacaccca gctgtgcaag cctataggct acaacaagcg attgcagcga gcgtcttaca 240
 acaaccaatt gcccaattgc gacaacaatc cttggcacat ttaacaatgc aaaccatcgg 300
 aacgcaacag cgacaacagt tactaccagc actgatccac ctagccatgg tgaaccctgt 360
 cgctacttg caacagcatc tgcttgcatc caaccactt gctctagc 408

<210> 11955
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-F6

<400> 11955

ccgactcgtg cgctcactct tgctattttc tacaaccac aatagtcgag gatcaatggc 60
 accaacgata tgctgcttac tgatgctgat acctctctat cgaagtgtg cttatgcaca 120
 cactctggaa cggtgcttac taattcgcac tgccttaca catgactcat cactattacc 180

tcaagacagt taccaccgag aaggacgaga tgattaccat tgctggaaac aacggccaga 240
cgccgtcgta aattgatgtt caactccctt accagtacaa catccagctt gccaagaaca 300
tgacttgat caagatcctt cggaatctca aagcacattg gttgaccac ggacatccac 360
taggacctct actacctcat taataatgtc attacgatta 400

<210> 11956
<211> 431
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-019-Q1-K1-F7
<400> 11956

atcggatcca gtcttctccc gggatctcct ccggctataa atttcgggc ccaattcacc 60
caatccagat gcgcaaacat cgaatcgtct cgctcgtggc tgccctactc gtgctgcttg 120
ccctcgccgc cgtttctctc acgcgcagcg cacaaaagga gtccgtggct gacaacgccg 180
ggatgttggc aggcggcatc aaggacgtgc cggcgaacga gaacgacctc cagctccagg 240
agctcgcgcg ctctgccgtc aatgagcaca accaaaaggc caatgctctt ctgggggttcg 300
agaagcttgt gaaggccaag acacaagttg ttgctggcac gatgtactat ctactattg 360
aagtgaagga tggcgtagtc aagaagcttt atgaagctaa ggtctgggag aagccatggg 420
agaacttcaa g 431

<210> 11957
<211> 275
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-019-Q1-K1-F8
<400> 11957

aacacgcgta cgctgataga tcgcgatttg acgccaacgt tttctattcg tgaaatgggg 60
aattatacat tgccgatgat cactagcaga tcccagcatg aatgcactat acagtttgga 120
tcattactat atcggcgtgt ccataaagac agatcctagt aatcactgat actcccagga 180
gctctactca tacataccgc gaaactatcc agtgtagtcg catctctgaa gtcgacgggc 240
acaatcaaac tggatttgaa ctcatgacta tccat 275

<210> 11958
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-F9

<400> 11958

gcgcccgtga cgtcaagggg gtcccagcag taccgcgccc tgaccgtccc ggagctgacc 60
 cagcagatgt gggacgcgaa gaacatgatg tgcgcggctg acccgcgga cgggcgctac 120
 ctgacggcgt cggccatgtt ccgcgggaag atgagcacca aggaggtgga cgagcagatg 180
 ctgaacgtgc agaacaagaa ctgcctctac ttcgtggagt ggatcccgaa caacgtgaag 240
 tcgagcgtgt gcgacatecc cccacgggc ctggcgatgg cgtccacgtt cgtcggcaac 300
 tccacctga tccaggagat gttccggcgc gtcagcgagc agttcacggc catgttccgg 360
 cgcaaggcct tcttgactg gtacaccggg gagggcatgg acgagatgga gtcc 414

<210> 11959
 <211> 446
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-019-Q1-K1-G1

<400> 11959

cccggtcgac cagcgttcgc gagcgtncgg cacgcgtccg ccatgcgttc gttctatgtc 60
 tgaatacctc atgggtgaag aggttccaga tgctgatatt gctgttgctc gtgtcaccat 120
 cttcagtcga ccctaatagcc acttatatgt ggatgtcttt gactctagtg aagacttcat 180
 atacctaata cacacacttg ctgacttcga agcagctaca aagcttctga cacttgcaaa 240
 ggttacattc tgttatgatg cgctacatgg tgggtgctgga gcttatgcca aacacatctt 300
 tgatgaaaaa cttgatgctg actaaaagct aactgaccaa ttgtgatcca gaacatgact 360
 ttggaagtgg tcatgcggat cctaacctta cctatgctca agactcgggt gaactgatac 420
 gtcttggaag gtcattctca aatggtt 446

<210> 11960

<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-G10

<400> 11960

gccagcatca aggagatgcc ggtggtgcag gacggggccgc cgccggggcgg ttctcgcgccc 60
gtgcgcttcg cccgccggat cccacactcg gggcccagcg ccaccgcat ctctctcacc 120
accttcggtg ctttcgcata tggcatgtac caggctcgcc aggggaacaa ggtccgcccg 180
gcgctcaaag aagagaaaat tgctgctcgc agtgctatac tgccgatgct ccaagcagaa 240
gaggatgaaa gatttgtcaa agagtggaag aagtgtcttg aggaggaggc gaggatcatg 300
aaagacgttc caggggtggaa ggtcggcgag agcgtgtaca actctgggaa atggatgccc 360
ccggctactg gtgagctccg ccctgagggt tggttaagggc ctgttcgagg cactgaatgc 420
catcatgtca cggg 434

<210> 11961
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-G11

<400> 11961

cagctcacta gtgctcagcc gccgcaatta ggggggcagg tagctcgagc gcgcgctcca 60
cctgcgccga cgcgatgcgg gccaaagtga agaagaagag gatgccgatg ctcaagagga 120
agcgccggaa aatgaggctg agatctaagt aggcgcactt tgtgaccgag gatggcgagc 180
ttctcctgca ccatggctgt gacgcgttgg gatgattggc tacctttgta gacgtgcttt 240
gctgtagacy taggcgatgt aaaccgtgct ttttgatcaa ttctagtatg ttctgagact 300
gggtttatat tgtaatctga ggataatcat atgatgctat aagggttatcg atattactgt 360
c 361

<210> 11962
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-E8

<400> 11962

cggacgcgtg ggtgaagcgg ctctaccgtc gcgcgaccgg gcggcggtccg ggcgcgggcg 60
tgggccccgt ggcgacgctg ctcatcgggt ccgcggcggg cgccatcgcc agctcggcca 120
cgttcccgt agaggtggcc cgcaagcaga tgcaggtggg cgctgtgggc ggtaggcacg 180
tgtaccagaa cgctctccac gctatctact gcaccccaa gaaggaggcg gccggcgggc 240
tgtaccgagg tctcggacct agctgcatca agctcatgcc cgccgtcggc atcgacttca 300
tgtgctacga ggcgtgcaag aagatcctcg tcgacaagga cgatgaggag gaggaggacg 360
aagccggcgg cgagaggat gacaagaaaa aggttgaatg at 402

<210> 11963

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-D3

<400> 11963

gaaggttcac gttgaggctg accagattgt cgcttggttg aaggagtact ttgacagcgg 60
attgacgcgg ttcatgaagt ctgagcctat tcctgacgtc aacaatgagc ctgttaaggt 120
ggttgctgat gacaacgtcc actacttctg cttcaaatct ggcaaaaatg tccttattga 180
attctatgcc ccctggtgcg gacactgcaa gaagctggcg cccatcttgg acgaggcagc 240
caccactctt cagagcgacg aggaagtcgt gattgctaaa atggacgcga ctgccaatga 300
cggtccagct gagtttgacg tccaaggcta ctgaccttg tacttcgtga ccccgagcgg 360
gaaggtgaca tcctacgaca gcggcaggac ggcgagcagc atgcgcgact tcatcaagaa 420
gagcaaggag accgcatgcc 440

<210> 11964

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-D4

<400> 11964

gtcactcgca gctggcatct tacccttttt aacctttttc cttccacat tatcaaccgg 60
gataccggca tttcccttgg gtccattaat tgccccaaaa cataaggga caacaactac 120
aacaacttgt gctagcaaac cttgctgcct actctcagca acagcagttt cttccattca 180
accaactagc tgcattgaac tctgcttctt atttgcaaca acaacaacta ccatttcagc 240
cagctatctg ctgcctaccc tcagcaattt cttccattca accaactgac agcattgaac 300
tctcctgctt atttacagca gcaacaacta ctaccattca gccagctagc tgggtgtagc 360
cctgctacct tattgacaca accacagttg ttgccgttct accagcacgc tgcgcctaac 420
gctggcacc ctttacaact gcaacaat 448

<210> 11965

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-D5

<400> 11965

aacaattcct accagcactg agccacctag ccatggtgaa ccctgccgcc tacttgcagc 60
agcagttgct tgcattcaaac ccacttgctc tggcaaacgt agttgcaaac cagccacaac 120
aacagctgca acagtttctg ccagcgctca gtcaactagc catgggtgaac cctgccgcct 180
acctacaaca gcaacaactg ctttcatcta gcccgctcgc tgtggccaat gcacctacat 240
acctgcaaca acaattgttg caacagattg taccagctct gactcagcta gttgtggcaa 300
accctgctgc ctacttgcaa cagctgcttc cattcaacca actgactatg tcgaactctg 360
ctgcgtacct acaacagcga caacagttac ttaatccact agcagtggtt aaccattgg 420
tc 442

<210> 11966

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-D6

<400> 11966

cccacgcgtc cgctagccta gtggttattg acttccaagt agcacctcca agtcctgggt 60

tcgattcccc tcgggagcga attttcaggc ttggttaaaa aaatcccctc gctgtgcccc 120
atccgctctc aggttacgat gtccgtgctg ccaccctccg gttggggcgt tgcagagtgg 180
acagttgacg ccggcccgtt agtgatgggg ggccagggtt cggggatttt ctgggccggg 240
accattgttt cggctctctt ttaatataat accgggaggg cggctcttcc ctccccggcc 300
gagtttttag tactataaag taaaaattaa agaaaaacaa catacacacg aatgacatgg 360
acgaac 366

<210> 11967
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-D8

<400> 11967
cagacacatg ggcagatcca ggagtgtttc ctgtattcga tgaataaacg agagatgggg 60
aaccatccat ctttgatgag gaattcactc ctagcagtga ggtacaaaag aacttgatg 120
atgactatga tggcgattgc atgcaagaag acggtgaaat tgaggagat tctagctgct 180
atcgtgttct atcaagcaaa acattagcat atgttggtga agcacttatt ggtgtctatt 240
atgtagctgg aggtaaaatt gctacaaacc atctgatgaa atggatcggt attaatgcag 300
agctggatcc tcaagagatc ccatcttcga agccatataa catacctgag atcataatta 360
aaagcatcaa ttttgacaca ttataggggtg cattgtgtat cactgcttag aataaaggct 420
tacttgttga agcta 435

<210> 11968
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-D9

<400> 11968
gcctcgcgca ggcaacagca caagcgttta cgactactgc agcacaagcg caggaaacgc 60
ctgcacggtg gagcaagtag agaacctcaa gtcagctctg agcgtgatgc ccatgtggtc 120
agccatggtg atgtcggtcc tgctgcagag ctccctcgttc ggggtcctgc aggcagccac 180

catggaccgc cgcgtctgcg caacaagggt ccagataccc gcgggctcga tctcgggtctt 240
cgagatcctg accttcacgg cgtgggtcaag ctgctacgac gcctgcatcg tgccagtcct 300
ccggaggatg acggagcggc agcgcgtgct gacgctgaag cagcgcacatg gagtcggcgt 360
gtccctggcc gtcgcctcca tggcgggtggc atcggcggtg gagacccatc ggaggcagca 420
cgccg 425

<210> 11969
<211> 436
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-019-Q1-K1-E11
<400> 11969

ccacgcgtac ggagaaccct gtcgactact tgcaacagtt aggtgctatc atccaaccca 60
cttgcctatgg cgaacatggg tgaataccaa caacaacaac aattgcaaca ggttctgcca 120
gcgctcagtc aactagccat ggtgaaccct gccgtctacc tacaacagca acaactgctt 180
tcatctagcc ctctcgttgt gggtaatgca cctacatacc tgcaacaaca attgctgcaa 240
cagattgtac cagctctgac tcagctagct gtggcaaacc ctgctgccta cttgcaacag 300
ctgcttccat tcaaccaact gactgtgtcg aactctgctg cgtacctaca acagcgacaa 360
cagttactta atccactagc agtgccctaac ccattgggtca ctgccttcct acagcagcaa 420
caattgctac cataca 436

<210> 11970
<211> 414
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-019-Q1-K1-E12
<400> 11970

cggacgcgtg ggcgggttccg cagcagcggc cgagtcacatg tcgccttccc ctccctcgac 60
acgccaaacg cgaactcccc tgccgtgacc tcccgatctc aggcgatggc cgcgcgccgc 120
ctcggatccc ccgcctctag gtggctgcgg ccgtccgcgc tgctcctcct ggtcgttctt 180
gtctcctctt cggccccgtc gccggccccg gcgctgcggg tcgacctcga gtccggccac 240

accaagtgca tctccgacga gatcaagggtt aacgccatgg ccgtcggcaa gtaccacatc 300
 gtcagccccg accccaactt ccccgatgcc cagctccccg aatcgcacccg catctccctc 360
 aggggtgacgt cgccgtacgg gaacagcatg cactacgcgg agaacgtgca gtcg 414

<210> 11971
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-019-Q1-K1-E2

 <400> 11971

cacatggtta tgacatcatt aactgggaag agacatttaa caactttgga gacaagctgg 60
 atcgcaaaac agtgggtgcat aactggcttg gaagtggagt tgcagagaaa gtggttgctg 120
 ctggtttgag atgcatcgta agcaaccagg ataagtggta cctagatcac ttggatgcta 180
 catgggaagg attttacacg aatgaaccac tgacaaatat ctacaacccg gagcagcaga 240
 aattggtact tgggtgtgag gtatgcatgt ggggcgaaca cattgatgca tcagacattc 300
 agcagacaat ttggccacgt gctgcagcag ctgcagagcg gctatggaca ccaattgaga 360
 agctggcgaa ggacacaaga tcggtcactg caagattggc acgcttcaag tgcttgctga 420
 atc 423

<210> 11972
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-019-Q1-K1-E3

 <400> 11972

caggacgaga acccgccaga tgacccatca acgatagtag gcgagccaga ctcgattgca 60
 atgctgcata agatcgcagg caaagtgtcc agccagctga agaaggagga gggcgctgag 120
 gtggtcgcg agcaggcgtg ctacctgccg tgcaccgccg acgggctgcc ggtcatcggg 180
 gagataccag gcgtgaaagg gtgctatgtg gccacgggcc acagctgctg gggatcctc 240
 aatggtccgg ccaccggcgc agccctcgcc gagctcatcc tggacggcaa gtccaagatc 300
 gttgatctcg agcctttcag cccggcaagg tttctcaaga gaaggagcag gcgtggagtc 360

tgaccgtgtg aatgttcaga ttcaagctcg ctactgaata aaacactctt ggttctccc 420
 tttgcatgac tgatgagtg 439

<210> 11973
 <211> 420
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-019-Q1-K1-E5
 <400> 11973

cccacgcgtc cgccacgcg tccgagttcc agcagttcgg atcctgcggc gtcggcaggg 60
 tcggcagccc gttcctgggc cagtgcgtcc agttcctgag gcaccagtgc agtccggcgg 120
 cgacgccta cggctcgtca cagtgccagg cgctgcagca gcagtgtgt caccagatca 180

tgcaggcgga gccgctgcac cgggtaccagg cgacatacgg tgtggctctg cagtgttcc 240
 tgcagcagca gccgcagggc gagctcgcgg cgctgatggc ggcccaggta gcgcagcatc 300
 tgactgcgat gtgcggtctg cagctgcagc agccagatcc ctgcccttgc aacgcagctg 360
 ccggcggtgt ctactactga agaaactatg tactgtagta ataatgtaat ggaacccgtg 420

<210> 11974
 <211> 194
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-019-Q1-K1-E6
 <400> 11974

aacactcgtg ctctaaagca tgatacttat atcattacgt agaccgttcg ggtgctgggg 60
 tcgcttaata tgccgtttgc acttgagac taccacagaa atgccacaa cagtttgat 120
 aattagttga accgctaata gcacaatctg atcttaatat aaacgcacac tctcatatgc 180
 tcaactacat acag 194

<210> 11975
 <211> 317
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-019-Q1-K1-E7

<400> 11975

aacgctcata ctaggaagtg agccactttg aacaaaacgt tgacagttct gagcgaccgg 60
gacgcctaag atgccgtcgg cggaggcaag ggcacgaggg cgtggcctcc aaagctctga 120
tcgtcagttg atccgcgaat cggctctgtct gaactcagca tctactcaca ctctcacatg 180
ctcagctagt acagaccgcc acatacacc ctgtgtctga aactcggcgg ttgtctttta 240
gcttcccaat gcatgtgtag tctgatctct ctatcatgaa aacgcgcata tcatttagaa 300
tgaactgcag ttggaaa 317

<210> 11976

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-D2

<400> 11976

ctcttggtt accagcatat tacatactag cctcatctga agcttcttct aatctatcgg 60
gctatgatgg tatcaggtat ggaggacagg tctcggcgga tgacttgaat gagctttatg 120
gagagtcccg ggctaattgg tttggtcatg aggtcaaaat gagaattttg atgggaacct 180
atgctctttc tgctgggtac tatgatgcat actacaaacg agcacaacag gtcaggacac 240
tggtaagca aagcttcaaa gatgctttgg aaagatacga cattttaatc tcaccagctg 300
cgccgtcagc agcctacaag ataggtgaaa agataaatga cccgttagcc atgtatgcag 360
gagatatcat ga 372

<210> 11977

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-B6

<400> 11977

cggacgcgtg ggggagcgga aggcgaaaga gtagcagcag caggcggcgc cgagtagcgg 60
ctccccacct cgagcttgcc accatggcta gaggattgaa gaagcatttg aagaggctca 120
atgcgcacca gcattggatg ctggacaagc ttggcggagc ttttgctccc aagccatctt 180

ctggacctca caagtctagg gagtgcctgc cactgatcct catcatcagg aacagggtca 240
 agtatgctct tacataccgt gaggtcattt ccatcctgat gcaacgccat gtactagttg 300
 atggcaaggt caggacagac aagacctacc ctgctggggt catggatgtc atttccatcc 360
 ccaagaccaa tgagaactac aggctgctgt acgataccaa gggccgcttc cgccttcacc 420
 caatcaggga tgaggatgct 440

<210> 11978
 <211> 355
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-B7

<400> 11978

gggagggcaa gagcgtcgtc acaactggcc gcaagatcat tggcgccacc aaccccctgg 60
 cttctgagcc cggcaccatc cgtggcgact ttgctgtcga cattggcagg aatgtcattc 120
 atggaagtga cagcattgag agtgctaata aggagattgc cctgtgggttc cccgagggcc 180
 ctgctgattg gcagagcagc cagcaccctt ggatctacga gaagtaaaca tggaaagttt 240
 cacatcaaac cttgagagcc agaggaagca tgtcaccatt tgtgctttag caatgttttc 300
 gaaaagatta tgatctgtat cttggaacct tatttcaatg gaccaaattt ctttc 355

<210> 11979
 <211> 338
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-B8

<400> 11979

cccacgcgtc cgcaattcgc cgcactgaac ccctctgctt atttccagca gcaaatacta 60
 ctaccatttg gccagctagc tacaacaagc cccgcttcct tcttgacaca acaacaattg 120
 cttccgttct accagcagtt tgtgggtaac cccgcaaccc ttttacaact gcaacagttg 180
 ctgccctttg tccaacttgc tttgacaaac ccagcagcct tctaccaaca acacatcatt 240
 ggcggtgccc tcttttagat tgcttattag ttgtcattca ataatgaagt tttttggctg 300
 atgtatgtgg cctcctagaa ataagaagtt atatttcc 338

<210> 11980
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-B9

<400> 11980

cggacgcgtg ggaaatggtg tgtatcatag gatccttacc agtgccggtg tgacaatgat 60
tgaaggggca ggcagtctag ttgatgctca tactgttgaa gttagccagc cccgatggttc 120
aaagcaaagg tataccgcga agcacatttt gatcgcgact ggtagccgtg ctcaacgtgt 180
caacatacct ggaaaggatc tggctattac ttctgatgag gccttgagct tggaggagct 240
tccaaagcgc gctgtaatcc tgggtggcgg atatattgct gttgaatttg cttctatctg 300
gaggggggatg ggtgctgaag tagatttggt ttatcgaaaa gatcttcctt taagagggtt 360
tgatgatgag atgagagcta ttgttgcaag caaccttgag ggaaggggaa tcaagttgca 420

<210> 11981
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-C12

<400> 11981

cggacgcgtg ggctcctctg gtctctagac aaccaagcca gagaggagca gccaggcgag 60
ccaaagcgca aggacacacg gccagcgaca acctcctccc ctcttattcc gcgcccagca 120
gcgaggcatg gtggagaagg cgaggacat ggcgcgagg ctggagatcc cccagtggaa 180
ggccgacggc cttccgtcgc cgacgagccc gctggaccgc gcgtcgccgt cgccccggg 240
gtggcgccac cgcgacgcg taggaggagg cgtggggctc gggatcctgg cggcgctcga 300
ggccgagggc ccgccgcagc ccgcgccgag ggtgtccatc ccgcggcgcg cggcgcggt 360
tgaggtgtcg gagctcgggt gcagcgggcg ctgcgccacc agcctgtgcg gcggcg 416

<210> 11982
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-C2

<400> 11982

cgcaaattgc accaagaaat ccatcgagag gccgtcgaca ggggaattaa tggcgctcgtg 60
gtctagcagc agccaccgcc gcctcatcct cgcagccgcc gtctgtctct ccgtgctcgc 120
ggctgccagc gccagcgccg ggacctctg cgtgccgggg tgggccatcc cgcacaaccc 180
gctcccgagc tgccgctggt acgtgaccag ccggacctgc ggcacggggc cgcgcctccc 240
gtggccggag ctgaagagga gatgctgccg ggagctggcg gacatcccgg cgtactgccg 300
gtgcacggcg ctgagcatcc tcatggacgg cgcgatcccg ccggggcccg acgcgcagct 360
ggagggccgc ctagaggacc tgccgggctg cccgcgggag gtgcagaggg ga 412

<210> 11983

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-019-Q1-K1-C3

<400> 11983

cccacgcgtc cgccaagatg aaggtgtgca tgcttggtga tgcccagcat gttgaggagg 60
ccgagaagat gggacttgac tacatggatg ttgaggctct caagaaaatg aacaagaaca 120
agaagcttgt taagaggctt gccagaagt accatgcttt cttggcatca gaggccatca 180
tcaagcagat tccccgtctc cttggctctg gtctcaacaa ggcaggcaag tccccgacct 240
tggttactca ccaggaatcc ctcgagtcca aggtgaacga gactaaggca accgtcaagt 300
tccagctcaa gaaggctcct tgcattgggtg tcgccgtcgg caacttggcg atggaggaga 360
agcagatcca gcagaacatc cagatgagcg tcaacttncct tgtttccctt ctgaagaaga 420
actggcagaa tgtgagatg 439

<210> 11984

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-C4

<400> 11984

gtctgtctac tcgcctacct acgcggctca aacctttccc ccttctgcca attccccgcg 60
 gcgctccata ccgtaacgcg acaccatgag ggagtgcatt tcgatccaca tcggacaggc 120
 cggtatccag gtcggaaacg cgtgctgaga gctgtactgc cttgagcatg gcattcaggc 180
 tgacggtcag atgccccggtg acaagaccat tgggggaggt gatgatgctt tcaacacctt 240
 cttcagttag actggtgctg ggaaacacgt gccccgagct gtttttgctg accttgaacc 300
 cactgtcatc gatgaggtga ggactggcac ctaccgccag ctcttccacc ctgagcagct 360
 catcagtggg aaagaagatg cagccaacaa ctttgcccgt ggtcactaca ccattggcaa 420
 ggaagatg 428

<210> 11985
 <211> 426
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-019-Q1-K1-C5
 <400> 11985

cccacgcgtc cgaaactttt ctcacgctca ccattccac ccaccacca ccttccttgc 60
 ctctctctct gtctgactgt ctccctccgt ccctcgaagc ttctctgggt tcagacgcaa 120
 ccccgcggtt cgcgggatca aggagccaga gagcgggacg cagcgagcgt tccgccggag 180
 atcgagaccg tagctagggt ttgaggcgcc gggctgcggt ggacgagatg tcgacgccgg 240
 cgaggaagcg gctgatgcgg gacttcaggc gcctgcagca ggaccgccc gccgggatca 300
 gggcgcgcc gcacgacaac aacatcatgc tctggaacgc cgtcatattc gggccggatg 360
 atacgccgtg ggacggtggc acgttcaagc ttaccttgca gtttacagaa gattacccaa 420
 acaagc 426

<210> 11986
 <211> 422
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-019-Q1-K1-C6
 <400> 11986

atgacacctg gtggccaatg ctaacagttc tcatgtatct taccctacca atgccccgga 60

tatttttctt gggttctgat acttgcctca tgatgtccaa tgggggagac ggctgggtga 120
 acttcacgaa attcttgacg ggcgcaccaa tagtagggag catgggtcatt ccgtcgatcc 180
 tgaagcatgc aggcgctcatt ggatggggag ccctgacgat ggagctgtca tccttcgtgg 240
 tctttggcgt ggcaatcctg tggttcctcc agatgaacgg tgaagacgag tacagcggag 300
 tgttctaata caaacctgct gctgctggtt ctcttgccag cgtggcactc tgtgcatggt 360
 agttgtgaac tgggctgtac tgctacaaca agagaagcat tgtcctgtga cctgatttac 420
 tg 422

<210> 11987
 <211> 415
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-019-Q1-K1-C9

<400> 11987

cggacgcgtg gggatcagca aagcggcagt gcgtagagag gatcgctcga cagaacagca 60
 tgaagatggt catcgttctc gtcgtgtgcc tggctctgtc agctgccagc gcctctgcaa 120
 tgcagatgcc ctgcccctgc gcggggctgc agggcttgta cggcgctggc gccggcctga 180
 cgacgatgat gggcgccggc gggctgtacc cctacgcgga gtacctgagg cagccgcagt 240
 gcagcccgtt ggcggcggcg cctactacg ccgggtgtgg gcagccgagc gccatgttcc 300
 agccgctccg gcaacagtgc tgccagcagc agatgaggat gatggacgtg cagtccgtcg 360
 cgcagcagct gcagatgatg atgcagcttg agcgtgccgc tgccgncagc agcag 415

<210> 11988
 <211> 259
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-D10

<400> 11988

cagatgcata caaccgatgc tgagtatat ggtggtagga ataattcatc ccgcaatgat 60
 ctgacgctga cgctcagacc ttgtgatgct cgtcatatga tgctgcatga gcgccggcac 120

cacgtatgaa gttactaaga atgaattcac cgtgggacta gcgatcagtt gcctgttata 180
 caatcgagaa gtcgcgtgga aaactaccat aatgacgagc tgagctatca gaagacaatt 240
 gattccgtga tatatacaa 259

<210> 11989
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-D11

<400> 11989

ccacgcgtcc ggcaacatag aaagtggat cagtagcaa caacagagca acaatggcga 60
 ccaagatatt ttcctcctt atgctccttg ctctttctgc atgtgttgct aacgcgacaa 120
 ttttccctca atgctcacia gctcctatag ctcccttct tccccatac cttccatcaa 180
 tgatagcttc agtatgtgaa aaccagctc ttcagcccta taggctcaa caagcaatcg 240
 cagcaagcaa cataccttta tcacccttgt tgtttcaaca atcgccagcc ctatctttgg 300
 tgcagtcatt ggtacaaacc atcagggcac agcagctgca gcaactcgtg ctacctgtga 360
 tcaaccaagt agctctggca aacctttctc cctactctca gcaacaacaa tttcttccat 420
 tcaa 424

<210> 11990
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-A12

<400> 11990

aaagcttgct caaggaagag gttgagagat acaagaagtt tgctgatcgc ttggagccct 60
 tcattgctga taccgtgcat gtgctaaatg aatctatcaa gcagaagaag aaaatcctgg 120
 tcgaaggcgg ccaagcaact atgctggata ttgattttgg cacttatcca tttgtgactt 180
 cttctagccc ttcagctggc gggatatgca caggcctagg gattgctcca agggcaattg 240
 gcgacctgat tggagtggtc aaagcttaca catctagagt cggctctggc cttttcccaa 300
 ctgaactatt tggagaggaa ggtgatcgcc ttaggaaagc tggaatggaa tttggcacia 360

caacagggtcg cccaaggcgt tgcggctggc ttgacattgt tgcgcttaag caca

414

<210> 11991

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-A2

<400> 11991

gggtgggctgg cttctcctcc cctcttacc aagtccttct cgggttaggg ttccttaggg 60

ttttgtggag gggcgatggc ggcggctgat gtggagtacc gttgcttcgt cggcgggctt 120

gcttgggcca ccagcaacga gtcgctggag aatgccttcg cctcctacgg cgagatcctc 180

gactccaagg tcatcaccga ccgggagacg gggagggtccc gcgggttcag cttcgttacc 240

ttctcctccg agaactccat gtcgacgct atcgagaaca tgaacggcaa ggagctcgac 300

ggccgtaaca tcaccgttaa ccaggcccag tcccggtggc gtggcgggtg cggcgggtggc 360

tacggcggcg gtcgcggcgg cggcggcggt tatggtggcg ggcgcggtga cggcgggttat 420

ggcggcgggtg 430

<210> 11992

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-A3

<400> 11992

accggtgcgg agaccacgc gtgcgattcc actctgcccg agcaagccga attgtcgtcc 60

gaattcgctc gcggggagca cttgctacct cgcgcccgcg ttctgtcgcg cggattcggtt 120

gctgcgcctg gagatggacc cgatggacat cgtcggcaag tccaaggagg acgtctccct 180

ccccaaatag ttgtttaaaa tcttctactg ctgattgaac tttctgcttt gcactttagc 240

aacaatgttt aagataatta aggagatgct tcctcctgat gtacgagtgg caagagatgc 300

acaggatctt cttgttgaat gctgtgtaga gttcatcaat ctcctttcgt ctgaatcgaa 360

tgaagtgtgc agcagagaag agaaaaaac gattgctcct gagcatgtta tcaaggctct 420

aagtgatctt g 431

<210> 11993
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-A4

<400> 11993

gcaacataga aagtggaatc cagtagcaac aacagagcaa caatggcgac caagatattg 60
tccctcctta tgctccttgc tctttctgca tgtgttgcta acgcgacaat tttccctcaa 120
tgctcacaag ctctatagc ttcccttctt ccccatatac ttccatcaat gatagcttca 180
gtatgtgaaa acccagctct tcagccctat aggtccaac aagcaatcgc agcaagcaac 240
atacctttat cacccttgtt gtttcaacaa tcgccagccc tatctttggt gcagtcattg 300
gtacaaacca tcagggcaca gcagctgcag caactcgtgc tacctgtgat caaccaagta 360
gctctggcaa acctttctcc ctactctcag caacaacaat ttcttccatt caaccaactg 420
tctacactg 429

<210> 11994
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-A5

<400> 11994

caagcaacat agaaagtgga atccagtatc aacaacagag caacaatggc gaccaagaga 60
ttttccctcc ttatgctcct tgctctttct gcatgtgttg ctaacgcgac aattttccct 120
caatgctcac aagctcctat agcttccctt cttcccccat accttccatc aatgatagct 180
tcagtatgtg aaaaccagc ttttcagccc tataggctcc aacaagcaat cgcagcaagc 240
aacatacctt tatcaccctt gttgtttcaa caatcgccag ccctatcttt ggtgcagtca 300
ttggtacaaa ccatcagggc acagcagctg cagcaactcg tgctacctgt gatcaaccaa 360
gtagctctgg caaacctttc tccctactct cagcaacaac aaatttcttc cattcaacca 420
actgtctaca ctg 433

<210> 11995

<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-019-Q1-K1-A6

<400> 11995

ggactctgga atacaccagg tacctttggt caggtggtgg agtggtggga taaggaaaga 60
aaagaaatgg tggccataaa gatcatcagg ggcattaaga agtacaggga tgctgcaatg 120
atcgaaattg gcatgcttga gaagcttggt aaatatggtg aaagcagatc caggtctcat 180
cccaatcccc aaaggagggg tcctattaca agcagttgcc caagtctagt gctatcaagg 240
tgattgattt cggtagcact acttatgatc aacatgatca gagttatgtg gtatcgacga 300
ggcactatcg ggctccagaa gttatattgg gacatggatg gagttaccca tgtgatatct 360
ggagtgttgg ttgtattctt gttgagctnt gcacgggtga ggcgttattc cagactcacg 420
aaaacttgga acatc 435

<210> 11996
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-A7

<400> 11996

cgcatgagca aggagatcac cgcgctcgcg cggtcagcga tgcgccctgg caccatgggt 60
ctgactgctg tgcacgatgg catcttgaag gatgttgtct acccagctga gattgtgggg 120
aagcgtgtca gataccgtct ggatggttcc aagattatca agattttatt ggacccaaag 180
gagaggaaca aactgaata caagctggag acctgcactg cggctctaccg caagctgtgt 240
gggaaagatg tggactttga gtaccctatg accgaatatg cataaatatg atgccctctg 300
gatatctcca ctctatttcg ttgattctga atgttatgtt gggctctccct atgtacttca 360
aaaaacatag ttgtgatgct aaagttgtct aggaattt 398

<210> 11997
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-A8

<400> 11997

attcatagac acaccacgcg aaacacatta gcaacaacct aacaacaatg gctaccaaga 60
gattatccct acttgtgctt cttgcgcttt atgagagcgc aacaaatgcg ttcattattc 120
cacaatgctc acttgtctaca agttccataa ttacacagta tctcccacca attacttcaa 180
tgggcttgga acaccagat atgcacgcct ataggctcca acaagcaatc gccgctagcg 240
tctaacaaca gccaatattcc caggagcaac aacaatactt ggctcatata acaatacaat 300
ccatctcatc gcatcagcat ctacaatttc taccagcact gagccaccta gccatgggtga 360
accctgtcgg ctacttgcaa cagctgatgc ttgcatcaaa cccacttgct atggcaaa 418

<210> 11998

<211> 101

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-019-Q1-K1-B1

<400> 11998

cccacgcgtc cgcagacgcg tnggggggtga ccaactcagt taattcctag ctacttcggc 60
tgtaaacata cttgtctccg aagttttttt ttttttgggc t 101

<210> 11999

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-B11

<400> 11999

caacatacct ttatcgccct tgttgtgtca acaatcgcca gccctatctt tgggtgcagtc 60
attggtacaa accatcaggg cacaacagct gcagcaactc gtgctacctg tgatcaacca 120
agtagctctg gcaaaccctt ctcctactc tccgcaacaa caatttcttc cattcaacca 180
actgtctaca ctgaaccctg ctgcttattt gcagcaacaa ctattaccat ttagccagct 240
agctactgcc tactctcaac aacaacaact tcttccattt aaccaattgg ccgcaactgaa 300

ccccgctgct tatttgcagc agcaaatact actaccatth agccagctag ctacagcaag 360
 ccgtgcttcc ttcttgacac aacaacagtt gctgccgttc taccagcagt ttg 413

<210> 12000
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-B12

<400> 12000

cccacgcgtc cggcattgct agaggtgaca tgagtttcac ttctactgaa ccggtgctac 60
 atgtagcatc tgttgatgaa ccaatgctac atgtaccacg agcgggcagc gagatcaatg 120
 ttgctggacc aagtgtgggc agtgagacta atgttgttgg actaacgttg gatcgagagg 180
 cttgtgaagt tcagtcacca cttcttggtg cgtcagtaca tggaagcggg aaaaagagga 240
 agaaaagtca agttgcaagt gttttggatg actatttggg gcacaagatg aaccaaacag 300
 ataagactgt ggaggcgttc cttgagaaga agactcgtgg agaggagtct atggataggt 360
 gtatccacat atttgaagct atggaggact tgacagatg 399

<210> 12001
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-B2

<400> 12001

cccaggaaca gagcgaggcg acgccgcggc acctcttctc cggcgaaggg aaatggcaag 60
 cgttccaggg gatctgatct ggcaggttgt gaggaagaac aactccttcc ttgtgaagca 120
 gttcggcaac ggcaatgcca aggtgcagtt caccaaggag ccgaacaacc tctacaacat 180
 ccactccttc aaacactcgg gtttggcgaa caagaagact gtgacgatcc agccagctgc 240
 aaaggactcg gctgtggtcc tctctactac caagaccaag aagcagaacg cacctgcgaa 300
 gctcagccac aagtctgtga tgcgcaagga gttccgcaag atggccaaag ctgtgaaaaa 360
 cccaggtag tgacaactac tacagggctg atctgaccaa gcca 404

<210> 12002

<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-B3

<400> 12002

gaggaagaag tcggtgacga ggtccgtgaa ggccgggctc cagttccccg tcggccgcgt 60
cgggcgctac ctcaagaagg gccgctacgc gcagcgctc gccagcggtg cccccgtcta 120
cctcgcggcc gtcctggagt acctcgccgc tgaggtcctg gagctcgccg gcaacgctgc 180
caaggacaac aagaagacgc gcatcgctcc gcgccacgtg ctgctggcga tccgcaacga 240
cgaggagctc gggaagctgc tgaccggcgt gaccatcgcc cacggcggcg tgttgcccaa 300
catcaaccg gtcctgctgc ccaagaagac ggcggaaga gcgccagcg gcgggagcaa 360
ggaggccaag tcgccaaga aggccgtcaa gtcccccaag aaggcatagg gtttgggagg 420
cggatcccga tgtggcatgt gt 442

<210> 12003
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-B4

<400> 12003

gaggaagaag tcggtgacca ggtccgtgtt tgccgttctc cagttccccg tcggccgcgg 60
cgggcgcgac ctcatgaagg gccgctacgc gcagcgctc gccagcggtg cccccgtcta 120
cctcgcggcc gtcctggagt acctcgccgc tgaggtcctg gagctcgccg gctacgctgc 180
caaggacaac aagaagacgc gcatcgctcc gcgccacgtg ctgctggcga tccgcaacga 240
cgaggagctc gggaagctgc tgaccggcgt gaccatcgcc cacggcggcg tgttgcccaa 300
catcaaccg gtcctgctgc ccaagaagac ggcggaaga gcgccagcg gcgggagcaa 360
ggaggccaag tcgccaaga aggccgcaa gttcccccaag aaggcatatg gtttggaggc 420
ggatccgatg ttgacatgtg t 441

<210> 12004
<211> 432
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-A11

<400> 12004

cgtacgcaca cgcgtccggc cacgcgtccg ctctgtttgg gcccaacatc ttagcgaaga 60
agtgaggaga aggttctaca agaactggtg caagagcaag aagaaggctt tcacaaagta 120
tgctctcaaa tatgaaaatg atgctggcaa gaaggaaatt cagctgcagc ttgagaagat 180
gaagaaatat gcttctgtta tccgtgtcat tgctcatacc cagattagga agatgaaggg 240
tttgaagcag aagaaggctc acctgatgga gattcaggtc aatggtggta ccattgctga 300
caaggtggac tatggctaca aattctttga gaaagaggtc cctgttgatg ctgtcttcca 360
gaaggatgag atgattgaca tcattgggtg gaccaagggg aaaggttatg aggggtgtggt 420
cactcgttgg gg 432

<210> 12005

<211> 396

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-018-Q1-K1-G6

<400> 12005

attaagacca actagcaaca tataatgtac aatagtgtac caacaatggc ancgcgagggt 60
attttgcttc cttatgctcc ttgggtctttc tgcaagtgtc gctaccgcga ccattttccc 120
gcaatgctca caagctccta tagcttcctt tcttccccca tacctctcat cagcgggtgc 180
ttcagtatgt gaaaacccaa ttcttcaacc ctacaggatc caacaggcaa tcgcagcagg 240
catcttacct ttatcacctt tggttctcca acaaccgtca tccctattac agcagttacc 300
tttggtgcat ttgttggcac aaaacatcat ggcacaacaa ctacaacaac ttgtgctagc 360
ataacctgct gcttactctc agcaacagca gtttct 396

<210> 12006

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-G7

<400> 12006

ctctgcatct gcaggcgtcg tcgtcactct tggaggacgt agtacatcgg tgcgtggagt 60
atctgttgtt taattgcgta cgttcagttc attctgtttc ttgtattctt tcggttcctt 120
tcctctggta tattcatgga tgatgaggtg tttctgttta atcctctgat tcacctgtaa 180
ccatgtatca tgtaacgtgc gcgtttatgt cctactgatt tctgcagctg tatttatttt 240
acttgatagc ttactatcga catatgatca tgctactatc attcatatga taacaattac 300
gtgggggtgca tttgttgtca caaatcattt tttctcatta ttttttttct cttttgcttt 360
ctaactcttt ctttctactt ttatcttctt tcttttattt ttctttctac ttatttttct 420
tttttttatt tt. 432

<210> 12007

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-G8

<400> 12007

gaataaatcg gaaaagcaag atacgcctaa aattcgaagg gggaagagga gaggagggga 60
aagaagcaaa tgacggaggc cccgagcaag atcgaatcca tgaggaagtg ggctgctcag 120
cacaagctcc gagccgtagg ttgcctctgg ctaggtggga tcagcagttc gatcgcctac 180
aactggtcgc ggccaatat gaagactagc gtcaagatca tccacgcaag gttgcatgcg 240
caggctctaa ccctagctgc attagttggt tctgcatgcg tggagtacta cgaccagaag 300
tatggttctt ctgggcaaaa ggtggacaag tacacaagcc aatatctggc ccattcgcac 360
aaagattaat gttcccatgt tggtttatc tctttgac 398

<210> 12008

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-G9

<400> 12008

cccacgcgtc cgcccacgcg tccgcggacg cgtgggcgca cagccttcga ggtggcttgc 60

atctcgctcg tgggtcgatc tcaactgagcc ctgcagctc ttctctccac ttcttgcgtt 120
 ctccatcttc cttcttcgct gataggctac gccgcttgct agcctgcgcg cgccgcagcc 180
 taacctgtg tgcacctgt tcctaaccct gcgtgtgtcc accgtcgact ggcttgcgtg 240
 cgctccaca tgcgtctaac actgctagc 269

<210> 12009
 <211> 266
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-H1

<400> 12009

caaaggcttt ggcagaatcg taaggctact cgccagatta ccctgcaga gctacaaggt 60
 cgaactcata ctctgaaact actcgatcat cagaatcata tacatgacct atatgatcaa 120
 gtatgacact gtacactgac agtgaatata ccaacatgtc taggtgattg actcatatac 180
 ctttatatcc tatgagaagg accttattga gctttacagc cataactctg acgatatctc 240
 atgaaaaccg acatgcgctg aatatt 266

<210> 12010
 <211> 342
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-H10

<400> 12010

ccacgcgttc ggggaaacgt gctgacaaac gtcacgctta gagactgcca cgctgtcctc 60
 cggcatttgc actgacctct ccacgccta cgacgccgcc tacgaccgca cgcaccgtcc 120
 ttactccgct ctagactacg acggtgagta caaccgcccg taccgcaact aggttgtgcc 180
 ctacatagac atcatcatca acatgatcgc caagccgccg gcgaggctcg ctaagacggt 240
 ctccaacaga ggcggaggct caggggtggg cttgacatca tgcttgagcg atacgcactt 300
 gcagaggctg agatctacgg ccagctcttc ggcttactca ac 342

<210> 12011
 <211> 366

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-H11

<400> 12011

cccacgcgtc cgcccacgcg tccgcccacg cgtccgggtc agacgagtgg gcgatctgcg 60
gtggaactgg agtggttcgcg atggcgagag gcgtcataag gagaacgttt cttgccgaca 120
cgagcggcgg gaactccgac gagcttgccg tggaggttct ctgcccgggtg ttccgcccgg 180
cggcgtttgg ctcacgtcgcg tcacagccag cagcaaagga catcagctcc accgtcgcgcg 240
tcaccaaggt cggagtgtgg ggtggagagg gagggtcggc gcaggacatc gtgacgacgg 300
atccgtcgag gcgtctgcag agcctgaccg ttcgtgctgt ctttgccgtg gacttcattg 360

agttta

366

<210> 12012
<211> 424
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-018-Q1-K1-H12

<400> 12012

gaccaactag caacatagaa agcacaatag tgtaccaaca atggcagcca aaatatttgg 60
cctccttatg ctccttggtc tttctgcaag tgctgctacc gcgaccattt tcccgcgaatg 120
ctcacaagct cctatagctt cccttcttcc cccgtacctc tcaccagcgg tgtcttcggt 180
atgtgaaaac ccaattcttc aacctatag gatccaacag gcaatcgcag ctggcatctt 240
acctttatca cccttggttc tccaacaatc atcagcccta ttacagcagt tacctttggt 300
gcatttattg gcacaaaaca tcagggcaca acaactacaa caacttgtgc tagcaaacct 360
tgctgcctac tctcagcaac agcagtttct tccattcaac caactntctg cattgaactc 420
tgct 424

<210> 12013
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-H4

<400> 12013

gtttgttcgt ctgacataac aatagatgac ggcattgcagg aaaatgtgac aagtgggtgct 60
attgtaccat ctcaagttca tatactagat tcgaatcctt ccgctacagc acatgaagtc 120
aacattgtcg gtagcataaa cgatgatgac gaaaagagtc aggatggaaa aagcagtgca 180
gatcttgctt catacgaggt aaaagagatg gttgtcaagg ataactttga agaaaagcag 240
cagaccgaag aggtcattgt agatccact ccacatgaag ccaacaactt tcccagtacc 300
gataatcacg aggaaaatga gcagaacaaa gaaattgttg cagacaccac ttcacacaag 360
ataagtgtcg tacaaagcat gggtagtact gaagaaaagg aacatattga agatttc 417

<210> 12014

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-H5

<400> 12014

caaaattcct gagtcatttg acaaagcttt tcagtattca aaagatggaa atcagttgac 60
cactgcaagc tctgtgaaac aagccattga acctcttaaa aaatgtgggg tcagtgatgg 120
agagatatgc atgatagcaa acattgggcc tgagaccgtt gaagagggtt acgcactagt 180
gccatctctc aaggctaata ggtcagctat cgaaggttca gtcaccgagg ttcttaccgc 240
cctcgcaaac ataaaagctg ctaagtgaat ctccaatgga actagaccga caataaatcg 300
gaagcagctg tcttgttgat cgaggagcgc ggaatctgca aactggccct tcagtgtttt 360
ggatgtgctg cggaacgtg ttatgatgtg tatat 395

<210> 12015

<211> 225

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-H6

<400> 12015

caacaacaca tcattcattgg ttctcctctt ttaaatagcc aattaattgt aatgcaatga 60

tcaattcatt ctcatgcaaa caagccatta aacctcttaa aaaatgtcgg cccatctata 120
gaaacctatc catcataccc aaccttgac cttataccgt ttaaattgtt acgcactaat 180
tccatcactc accgctaata tttcacctat cgaatgttca atcac 225

<210> 12016
<211> 415
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-018-Q1-K1-H7
<400> 12016

cgcatcgcg ccaactcctg agcactttct cctcgtcccc gacaagccaa tcgaagggga 60
gatacggcca tggactccac cggcaccgga gcagggggta aggggaagaa gggagcggcc 120
gggcgcaagg tcggcgggcc aaggaagaag tcgggtgcga ggtccgtgaa ggccgggctc 180
cagttccccg tcggccgcat cgggcgctac ttgaagaagg gccgctacgc gcagcgtgtc 240
ggcaccggcg cccccgtcta cctcgccgct gtccctgaat acctcgccgc tgaggttctg 300
gagctcgctg gtaatgctgc cagggacaac aagaagactc gcattattcc ggcaccgctg 360
cttctggcga tccggaacga cgaggagctt gggaagctgt tgggcggcgt gacca 415

<210> 12017
<211> 441
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-019-Q1-K1-A1
<400> 12017

cttgggtctt ctgcaagtgc tgctaccgca accattttcc cacaatgctc acaagctcct 60
atagcttgct ttcttcccc ataccttca ccagcgggtg cttcagtatg tgaaaacca 120
attcttcaac cctacaggat ccaacaggca atcgcagcag gcattctacc tttatcacc 180
ttgttctcc aacaaccgct agccctatta cagcagttac ctttggtgca tttgttgga 240
caaaacatca aggcaaca actacaaca cttgtgctag gaaaccttgc tgctactct 300
cagcaacagc agtttcttcc attcaacaa ctggctgcat tgaactctgc tgcttattg 360
caacaacaac taccattcag tcagctagct gctgcctacc cccagcaatt tcttccattc 420

<210> 12018
<211> 419
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-019-Q1-K1-A10

<400> 12018

agttcagaca ctaaaatcaa ctcaagctat gggatgatgcc atgaagggcg ttacaaagggc 60
aatggctcaa atgaacaggc agctaaatct gccagggttg cagaggataa tgcaagagtt 120
tgagcggcag aacgagagga tggagatggt gagcgaagtg atgggagatg ccatagatga 180
tgctttggaa ggagatgagg aagaagaaga aactgaggag cttgtgaatc aagtacttga 240
tgaaattggc attgatatca accaagagct tgttggagcc ccgtcggccg ctgttgctca 300
acctgcttca gcgggaaggg ttgccaggc tgaaagtgtg gggaatgctg aacttggaat 360
cgacgccgat ttgcaggcaa ggctggacaa tctgaggaga atgtangtgc tacaccagc 419

<210> 12019
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-G5

<400> 12019

cagaagtaca tactagctta ctttctgttg gtcaggaatg agtacttctc tggggaggcg 60
aagaaacact cagatgtgtt ctgtgatatt tcagaattag atttctttct atatgctaca 120
gatttgata gtgaagaact tgaactgaag gagcagaaac ccattacgaa ggctcaatca 180
ggaggtgatt caagtggcaa cagatcgaat gattgctact tccccggcct tcatgatgat 240
ctgtctcaag actgccttgc ttgggcaagc atatcatact acccttccct ttcttgtctg 300
aacaaaagat tcaatttggt aattaacagt ggatattttt actgactgct taatatatat 360
tgtattgttg agctctgttt tatttatctt tttattttta tctctattaa tctttttttt 420
tt 422

<210> 12020
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-E7

<400> 12020

cggcacctca gatccggcct cccctcctc cgcgccacc tcgcatcctc cgaatccgcg 60
 gccgtcgctc aggtttcgag gggcttcgcg tcgcaggccg ccaagcccac cgggaaggag 120
 atcaaggctc caaaggctct gtttggcggc acaggcaact atgccagtgc actgttcctc 180
 acagcagcta aatctaatagc attggacaaa gttgaatctg agattaaagc tattgtagag 240
 gttccaaga agagcccgtt gttttctcaa ttcataaagg acttgctcagt tccaaaagcg 300
 accagggatga aggctatagc cgaaatattt gctgacgctg ggttttcaga tgttaciaaag 360
 aatttcttgg ctggcctggc ggacaatggc aggctgaaat atattgaacg cattgcggaa 420
 agatttggt 429

<210> 12021
 <211> 263
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-E8

<400> 12021

cccacgcgta cgcggcgatga ttcacctgctc cgtggggcgac cgcgtggcgc tgggaccgtg 60
 cgtagctgctc tggcgctggc gccactgcaa gggcaggcgg tacaacctgt gcgaggacat 120
 gaagttcttc gacaccccg cggcgcacgg cttagctggct aaccaagtgg tgcacccggc 180
 acgacctgtg cttcaagctc ctgcacagtg tgagcctgta agagggcacc atgtgctaac 240
 cgtttagcgt ggacatgcac gct 263

<210> 12022
 <211> 268
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-E9

<400> 12022

aaaaaaaaaa aaaaaaaaaa aaaaaataa aaaaaaaaaa aaaaaaaaaa aaagaaaaga 60
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaagagaa tgcattaaaa aagacataaa caatacttac aacaagaata aaataaaaag 180
 gccatgaaac taagacaaaa cttaaaaaaa aaaaactctt atctaaaaaa atacataaca 240
 tgaaaaacat aaacaataca taaataaa 268

<210> 12023
 <211> 360
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-018-Q1-K1-F1

<400> 12023
 caaccaccat gaatacaaga accttttgaa agacctaac attcagggtt tgctccgggt 60
 gaaagagcca gcagtattgc tccgttgccg caaggatgat caccatcatg tggaatcagt 120
 gctgcattca gcaaagcatg agtatgcac aaaagcagat gtccatgaac cagagatatt 180
 tgttgatcat gatgtatacc tgccacctgc cccaagccat catgatgctc atggccagtt 240
 ttgctctgga ggtattgtat tggcttctcg agatggaaag attgtgtttg agagtacact 300
 tgacgcatga ctagaaagtg ttttccgcaa gaaattgcca gagatccgga agcttctttt 360

<210> 12024
 <211> 399
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-018-Q1-K1-F10

<400> 12024
 cggacgcgtg gggggcaatg cacctacata cctgcaacaa caattgttgc aacagagtgt 60
 accagctctg actcaactag ctgtggcaaa ccctgttgcc tacttgcaac agctgcttcc 120
 attcaaccaa ctgactctgt cgaactctgc tgcgtacctt caacagcgac aacagttact 180
 taatccattg gtagtggcta acccattggt cgccgccttc ctacagcagc aacaattgct 240
 gccatacaac cagttctctt tgatgaatcc tgtcttctcg aggcagcaac ccacgtgttg 300
 aggtgccatc ttttagatta catatgagat gtactcgata atggtgccct cataccgacg 360

tgtgtttcct agaaataatc aatatattga ttgagattt

399

<210> 12025
<211> 221
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-F12

<400> 12025

gtttcttcgcc accccgccgg tgcacggctc gctggcgaac caggtggtgc aggcggggcg 60
acctgtgctt caagctcccc gacgggtgtga gcctggagga gggcgccatg tgcgagccgc 120
tgagcgtggg cgtgcacgcg tgccgtcgcg cgggggtggg gcccgagacg ggcgatctcg 180
tggtggggcg ctagctccat ctacctggtg tcgattctag t 221

<210> 12026
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-F2

<400> 12026

cagccaccat caatacaaca acctttttca ctacctaatc attcaagctc tgctcccgct 60
gagatagcca gcattattgc tccgttgccc caaggatgat caccatcatg tggaatcagt 120
gctgcattca gcaaagcatg agtatgcatc aaaagcagat gtccatgaac cagagatatt 180
tgttgatcat tatgtatacc tgccacctgc cccaagccat catgattctc atggccagtt 240
ttgctctgga ggtattgtat tgtcttttct agatggaaag attgtgtttt aaagtacact 300

<210> 12027
<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-018-Q1-K1-F3

<400> 12027

gtgatttcga ccttgcagcc accttttttt gttctgttgt gtatctagta gttggaggag 60

agatgcagtt tgcacttgca ttggacacga actcaggtcc tcaccagata agatcttgtg 120
 aggggtgatgg gattgacagg ttggaaaaat taagtattgg gggcagaaag caggagaaag 180
 ctttgagaaa taggtgcttt ggtggtagag ttgttgcaac tacacaatgt attcttacct 240
 cagatgcttg tcttgaaact cttcattctc aaacacagtc ctctaggaaa aattatgctg 300
 atgcanaccg tgtatctgct atcattttgg gcggaagcac tggatctcag ctctttcctc 360
 tgacaagcac aagagctacg cctgctgtac ctgttgagg atgttacagg cttattgata 420
 tccctatgag taact 435

<210> 12028
 <211> 332
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-F4

<400> 12028

atcaaaagct tcttgggatt ccttcataaa agattaatgt ccatggagga gctgtgtgtc 60
 tagggcatcc tcttgggtgc agcgggtgtc gcattttggt cacccttctt ggtgtcctta 120
 gggaaaaggg cggcaagatc ggtgttgctg gtgtctgcaa cggcggagggt ggagcatcag 180
 ctcttgttct cgaactcgca taagaagcat tggcttgaag cactggatat gtaattaatt 240
 cagtcgcatg catctatgca tgatgaagta ttgaaaaaaa aagaccctac gatatccatg 300
 ccgggtgcca ctgtctgctt aattcaacag aa 332

<210> 12029
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-F5

<400> 12029

gttggttgaa tggaagaaat tgtctacatt gaaccgtgct gcttatattgc agcggcagct 60
 attaccattc agccagctag ctactgccta ctctcagcaa caacaacttc ttccatttaa 120
 ccaattggcc gcaactgaacc ccgctgctta ttgcagcag caaatactac taccatttag 180
 ccagctagct gcagcaagcc gtgcttcctt cttgacacag caacagttgc tgcctttcta 240

ccagcagttt ggggctaacc ccgcaaccct cttacaacta caacaattgt tgccctttgt 300
 ccaacttgct ttgacaaacc cagcagcctc ctaccaacaa cacatcattg gtgggtgcct 360
 cttttagatt gcttattagt tgtaattcaa taataaagtt tttttggatg atgtatg 417

<210> 12030

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-F8

<400> 12030

cggacgcgtg ggtagcaaca tagaaagcac aatagtgtac caacaatggc aggcaaagta 60
 tttcgctccc ttatgctcct tgggtcttct gcaagtgtg ctacggcgac cattttccca 120

caatgctcac aagctcctat agcttccctt cttccaccgt acctctcacc agcgggtgtct 180
 tccgtatgtg aaaaccaat tcttcaacc tataggatcc aacaggcaat cgcagctggc 240
 atcttacctt tatcaccctt gtccctacaa caatcatcag ccctattaca gcagttacct 300
 ttggtgcatt tattggcaca aaacatcatg gcacaacatc tacaaccaac tgtgctagca 360
 aaccttgctg cctactt 377

<210> 12031

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-F9

<400> 12031

ggcttactag ttgatgatat tatggggtag aaaatctata ctcatgaatt acgctcggga 60
 tatgctgcaa ggattgataa ttgtaggagc tatgataccg tgagcaaaga tgtaattcaa 120
 aggtggacat atcctatggg gcctgatgta gtatccagtc atgatattct aggatagtag 180
 acttcatagg cagggaatat acagggcatc aaatgtaaca ttgtcacctt cttcaciaat 240
 ctaagcatat tctattgacg ctagtgtgac tagattagca ggctactgca atggaagtaa 300
 ttcagttatt gatcatggct acataattgc gaaagatgaa catattaaat gctcatgtat 360
 atagcacaat gatatattag gctatgcatg caa 393

<210> 12032
<211> 230
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-G1

<400> 12032

ctcgataatg gtgccctcat tccggcatgt gtttcctaga aataatcaat atattgatgg 60
aaatttatct caatatataaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaattataaa 120
aaaaaaaaaa aaataaaaaa aaaaaaaaaa aaaaaaaatc aaaaaaaaaa tacataaaaa 180
ataaaaaaaaa aataaaaaaa ataaaaaaaaa tgtttaattt ttaaataattt 230

<210> 12033
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-G10

<400> 12033

ggatgttgct aagcagctca aggaacaaca aatggtgatg ccaggacatc gggagtgaag 60
cttgagaag gaactgaacc gatacatccc cactgctgct gcatttggtg gagtatgcat 120
cggcgcatg actgtcctgg ctgatttcat gggtgcaatt gggtcaggaa ctggaatact 180
gctggcagtg acaatcatat accaatactt cgaaaccttc gagaaggaaa gggcaacgga 240
gcttggtatc ttcggttttt gattagtagc tgtggaacct tgaactgata gctgaatttt 300
cttgtaaggc cctgtacgga agcaaccggt ttttttagaa accagttctt atatttgagc 360
taggagaggc caacttcat 379

<210> 12034
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-G11

<400> 12034

cccacgcgtc cgcggacgcg tgggggctgc gccggcgtgc tcgtgatctc aggccaggtc 60

gtgcctccgc tccggtcacc cgtcgctcca cgcaaccatg tgcaggagga agaccagggg 120
 gcccaaggag gagaacgtca cccttggacc cactgtccgt gaaggagagt atgtctttgg 180
 tgcgctcac atctttgcat ccttcaatga caccttcatt catatcactg atttgtctgg 240
 gaggtaaact ctggttcgga tcaccggtgg catgaacgtg aaggctgacc gtgacgagtc 300
 tgtaccttac gctgttatgc atgct 325

<210> 12035
 <211> 333
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-018-Q1-K1-G12
 <400> 12035

cccacgcgtc cgcccacgcy ttcgcctacg cgtccgcca cgcgtccgca agctgatgtc 60
 ggctgtgtg gatttgaggy ttcggtgccc gtacttttat gagctaggat gcaagattgt 120
 tcctttggtg agtgacaata gcattggcct gttcttgca tatgcattca ccagtaggta 180
 caaagagggt ctaagtaagt cccacagttc ttccatgatg acagtgccca agttcggttc 240
 acgccttaca aaagaagaaa ctcggtgtt tgaatctgcc agagaatcga tgactggttt 300
 caagaaatgg ctagcatgtg ggatgagact gca 333

<210> 12036
 <211> 133
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-018-Q1-K1-G3
 <400> 12036

acttcgaatg gtcattaaa tcaattatag tatgtttgat tgtacattct actcttataa 60
 cctttattaa ttctagatct aatactttca acaaaccctt acttccttta ttatctcatt 120
 tattatataa aat 133

<210> 12037
 <211> 294
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-C9

<400> 12037

cccacgcgtc cggaagggcc agacgtgtcc ttccctcaac atcctcatca aggttagggc 60
gaagacaagg gattcaaccg ccataagctt gatgaggatg ttgagggaag ggccagacgt 120
gtccttgaga gcacctctc tggcgccacc aatgacaggc gccttgtaga ggctcagaac 180
gttttggtcc aagggtcctg gcatgcactt aaactccagt cttaatgtac ttatgggtccg 240
accatggtgg catgctcttc aaatggctct acacacgcta gagactcatg ataa 294

<210> 12038

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-D1

<400> 12038

aaggaactcc tccttgtcag ccacaaccac catgaatata agaacctttt gaaagatgta 60
atggttcagg gcttgctccg tttgaaagag ccagctgtat tgctccgttg ccgcaaggaa 120
gatcaccatc atgtggaatc agtactgcat tcagcaaagc acgagtatgc atcaaaagca 180
gatgtccatg aaccagagat atttgttgac catgatgtgt acctaccacc tgccccaagc 240
catcatgaat ctcacggcca ggtttgctct tgaagtattg gcttggcttc ttcagattga 300
aaggatgggt ttg 313

<210> 12039

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-D10

<400> 12039

gagaagacca tcttccacct caaccgtcc gggcgcttcg tcacggcgcg gcgccagggt 60
gacgccggcc tcaccggccg caagatcatc atcgacacgt acggcggtcg gggagccac 120
ggcggtggcg ctttctccg caaggacccc accaaggtgg accgcagcgg cgcctacgtg 180
gccaggcagg ccgacaagag catcgtggcc agcggcctcg cccgccgctg cctcgtgcag 240

gtgtcgtagc ccatcggcgt gccggagccc ctgttcgtgt tegtcaactc gtacggcgct 300
ggcacgatgc atcacaagga gatactaagg atcgtgaagg agaactcgta c 351

<210> 12040
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-D12

<400> 12040

gcaccatccc tagagttgtc acttttgaca agaaccctga caaccaccca tgcctcggga 60
aattcttcca aagctcagcc cccaaggcta tgctgttttt gaacttctcc accggacctt 120
ttgattcttt caagtctgcc tactctgctg ccgcgaggga attcaaggac aaggaaatca 180

agttccttat tggtagacatc gaagccagcc aggggtgcctt ccagtacttt ggctgaaag 240
aggaccagac accccttatc ctcatccagg atggtgactc caagaagttc ttgaaggttc 300
acgttgaggc tgaccagatc gtcgcttggt tgaaggagta ctttgatggc taattgacgc 360
cgttcaggaa gtctgagcct attcctgagg tcaacaatga gtattt 406

<210> 12041
<211> 189
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-D2

<400> 12041

caaattcggt ccgccaggc aaggaagtaa tctagcagcc aaggagagga gaagatggcg 60
cgggctaagc aaaccggccg caagtccacc ggaagcaagg ccccgcgcaa gcaacttggc 120
accaaagccg ccaggaaatc cgcgccgacc accggccgcg ttaaaaaacc ccacaagtac 180
aagccccgg 189

<210> 12042
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-D3

<400> 12042

gccacctcca cgcatacaag cggcagctgc ggctggcagc caacggcggc cgttcatcgt 60
ccggccgccc tgccctctgcc aacctccgtt cacctggcaa ctctctgtgca tctcccaccg 120
ccgggtccacc tgccgcccgc ggtccacctg ccaccgcccgg tccatgtgcc ggccgcccgtt 180
catctgcccgc cgccaccatg ccactaccct actcaaccgc cccggcctca gcctcatccc 240
cagccacacc catgcccgtg ccaacagccg catccaagcc cgtgccagct gcagggaaacc 300
tgccggcggtg gcagcacccc gatcctgggc cagtgcgtcg agttcctgaa gcatcagtcg 360
agcccga 367

<210> 12043

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-D5

<400> 12043

gcaacataga aagtggaaac cagtagcata caacagagca acaatggcga ccaggatagt 60
ttccctcctt atgctccttg ctctttctgc atgtgttgct aacgcgacaa ttttccctca 120
atgctcacia gctcctatag ctccctttct tccccatac cttccatcaa tgatagcttc 180
agtatgtgaa aaccagctc ttcagcccta taggctccaa caagcaatcg cagcaagcaa 240
cataccttta tcacccttgt tgtttcaaca atcgccagcc ctatctttgg tgcagtcatt 300
ggtaaaaacc atcatggcac agcatctgca gcaactcgtg ctacctgtga tcaaccaagt 360
agctctggca tacctttctc cctactctca gcaacaacaa tttctttcat tcaaccaact 420
gtctaca 427

<210> 12044

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-D6

<400> 12044

taaagttgga atcctttatc tttcaacagc atcaacaatg gccgaccagg gaatgtttcc 60

actccttatg ttcgcttgct cttatctgca tgtgattgct atactctaca atttttccct 120
 caatgcttca caatcctcct atatctttcc cttcttctct ccataccttt ccatcaatta 180
 tagctacatg tattacaaaa cccaactctt catccctata gtctccaaca tgcaatctta 240
 tcatgcaaca tacctttatc ac 262

<210> 12045
 <211> 429
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-018-Q1-K1-D7
 <400> 12045

ggcgatctat tatatcgcta ctgatagtct ccagagtgcg aagactgctc ctgtctggga 60

aaagctgggt cagaaagata ttgaggtcct ttacctcatt gagccaattg atgaggttgc 120
 cattcagaat ttacagacat acaaagagaa gaagttcgtt gatattagca aagaggattt 180
 ggaattgggt gatgaagatg aggacaagga gaaagaaagc aagcaggagt atactcttct 240
 atgcgactgg ataaagcagc agcttggcga taaagtcgcc aaggtccaga tctcgaagcg 300
 actcagctct tctccatgtg ttcttgtttc tggtaaattt ggctggtcag ccaacatgga 360
 aaggctcatg aatgcacaga cccttgggtga cacatcaagc cctgagttca tgataggtag 420
 acgaatttt 429

<210> 12046
 <211> 394
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-018-Q1-K1-D8
 <400> 12046

aaacaaggct tcccaatgaa gcaaggagtt ctgacttctg gtcgtgtccg cctgctggtc 60
 cacagaggca ctccctgctt ccgcggttat ggcaggcgta atgggtgagcg caggaggaag 120
 tctgtccgtg gttgtattgt gagccaagac ctatctgtta tcaacttgggt aattgttaag 180
 aagggtgaga acgatctgcc tggtttaact gacactgaga agccaaggat gaggggtccc 240
 aaaaggcct ccaagatcag gaagctgttc aatcttgcaa aggatgacga cgtgcgcaag 300

tacgtgaaca cgtaccgcag gacattcact accaagaatg gcaagaaggt gagcaaggca 360
cctaagatcc agcggcttgt gacccccttg accc 394

<210> 12047
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-D9

<400> 12047

gagaccaaca agcaacatag atagtgttat acagcatcaa caattgagca acgatggggg 60
ccaagatata ttccatccta atgctccttg ctctgtctac atgtgttgct aactcgacca 120
tctttcctga atactcacia actactatat ctacaattct ttcagcatat attgcatcaa 180

tgtccacttc aatatgataa tacatagcca tacaaccata cacgctgcat caagctttct 240
caacttgtag attacctata tcatgcctaa cgtcataaca atcatcaacc gtatggagct 300
tgccgtcatt aacataaacg ataacgacgc acaatctgga ggaactcgtg ctagcagtga 360
tcatccatac agctg 375

<210> 12048
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-E1

<400> 12048

cccacgcgtc cggaacaaaa taactcggaa aagaaggaga cgccgaaaat tcgaaagggg 60
aggggaaagc aaagctgatg gcggaggccc aggggaaagc aaagcaaagc gcggaggccc 120
cgagcaagat cgaatccatg aggaagtggg tcgtcgagca caagctccga gccgtagggt 180
gcctctggct aggtgggatc agcagttcga tcgcctacaa ctggctcgcg gccaatatga 240
agcctagcgt caagatcatc cagcgaaggt tgcattgtca agctctaaac ctggctgcat 300
tagttgggtc tgcattcgtg gactactatg accagaaata tgggttctct gggccaaagg 360
tggacaaata cacaagccaa tacctggccc a 391

<210> 12049

<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-E12

<400> 12049

cggacgcgtg ggcggacgcg tgggggtgat gatgaacgtg acatgattgc agatgagggg 60
cctgatttca atgaccttga tgagaacctg cagaggggaat tccacaggta cctggatctg 120
cgtggcattt caccaggac cacaaatttc ttgcacctgt acatgatcaa caaggacagc 180
cgtgagtacc tgctctggct gagaaagctg aaggatttct tcaagcagta ggtgtgaaga 240
cctgaagatc agctttatct ctcttttggt cctgctaggg ccttctcggt tattccaatt 300
ccatgtggat tgaaatgtat taaaataaat ttgacttgt tatggattta aattaactta 360
ataccacca atccacatgg attattggtg aaacaa 396

<210> 12050
<211> 208
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-E3

<400> 12050

aagtacttta attgctgcaa agaagtgttt aatctcaa atccatgcaa cattttaagt 60
ccggatttaa tagtattatc gctggtttgg agaagaaaa tagggtcatt agcatactgc 120
atgccttac tgtaacttac catgaatctt tacatgcatt ttctgtattt tactaggaac 180
atgctgtgcc tcttctaaaa attacaaa 208

<210> 12051
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-E4

<400> 12051

gatgacaacc aagaggactc aagcaacaca agttctggtg tatcacttgg ggattacgtt 60
cgtggctctg ccttagatac tctcttgagc cggttgccgg agagtgcct cagtcgttct 120

ggcacaccgc ctgccaagaa ggaagcagtc gccgcgctac caaccgtgaa catcaaggaa 180
gcgttgggct gttcagtcctg tcttgaggat ttcgagatgg gaggagaagc gaagcagatg 240
ccctgtcagc ataagttcca ctctcactgc atactcccgt ggctggagct ccacagctct 300
tgcccaatct gccggtttca gttgcctact gaggagacga agaacaaccc atgcgaatca 360
gccagcaccg cagggggcca 379

<210> 12052
<211> 344
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-018-Q1-K1-E5
<400> 12052

cggacgcgtg ggcggacgcg tgttcctaag gcgcgatgac ggaaggggtca gacgagtgg 60
cgatctacgg cggaactgga gcgttcgcga tggcgagagg cgtcataagg agaacgtttc 120
ttgccgacac gagcggcggg aactccgacg aacttgccgt ggaggttctc tgcccgggtg 180
tccgcccggc ggcgtttggc tcacgtcgt cacagtcagc atcaaagggtg agagcgagcg 240
agcgagcgag aaaccgtttc tccttcttac tcatcatatc atccgatgaa caacactggg 300
atggtctgat ggatggatgg atggatggat gcatgacatc atct 344

<210> 12053
<211> 392
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-018-Q1-K1-B11
<400> 12053

cccacgcgtc cgccacgcg tccgcgcgag gccaagaaga tcgacaagca catgtaggac 60
gatatgtaca tgaagggtcaa aggttaactcg ttcaagaaca agaggggtgct tatggagagc 120
atccacaagt ccaagggtga gaaggccagg gagaagacgc tctccgatca gttcgaggcc 180
aggcgcgcca agagcaaggc gagtcgcgag aggaagaatg ctaggaggga agagaggctg 240
gccaggggac caagagaaat accaccacca gtctcagcca cagctccac taccggggca 300
ccgaagaaag caaagaagtg aagtattgca acaaagctgc agctttctag tccagtactt 360

cgtaattttg gagcgccctg atcaattttg ct

392

<210> 12054
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-B12

<400> 12054

cggacgcgtg ggcggacgcg tgggcggacg cgtgggtttt gacaggtacg acaggggccg 60
gagcggcaaa atcgactccc gtgagctgac cgaggctctc cggagccttg gatatgctgt 120
tccaccttct gtcacgagc ttcttatagc gaattacagc aatggtgtgc ccagcaatgg 180
cgcgctagac ttgacaact ttgtggaatg tgggatgatt gtgaagggtt taaccgagaa 240
attcaaggag aaggatacgc gctacaccgg ctcggtact cttacatacg atggtttctt 300
gtcaatggtg atccccctca tcgtccctta gctgtgctgt atgtagtctg gtaacttgat 360
agtagtcac caccatgggt ctagt 385

<210> 12055
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-B2

<400> 12055

aagaaaaaaa aatataaaaa aaaaaatttt ttttttaaca aacaaacata aaaaaagggg 60
atagtataaa aaataagctt gggaaccaat caatatatat aaaataacta tatatgcatg 120
acagttaaaa atatacatat ttccttttaa aatattagcc aatactattt gcctatgggtg 180
aactaatcaa tccttaatga ctgcccccat gtacaaaacc agatcaagat tctagctctt 240
ccggttgaaa ttactcctta tgtgctgtaa gtttaccctt gacattatat tttccaactt 300
aatgcagca tgatttattc ttttaata 328

<210> 12056
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-B3

<400> 12056

gacacttgat gccattatag ctgggtctgg gccttaacta gttctctaa ttgttgcgcg 60
cgtgtatgtg gttacattgc aggaaagctt actgatttga tgctgggttaa ttggccaggc 120
atccttggtg tgcttggaact ccatgagcag ctgcacaaat ttcgtttcag ctttcaaata 180
tctccttttt ctgcaagttt tctgggtgta aaagatgatg gtggcaataa tatgggtactt 240
gagctcacag gatgcacatt tcttgtaacc tgtattccaa aactttatct acctgaaacc 300
atagttactg ttttaagaata aaatatttta atttttatta ttttattatt tttttttttt 360
tattttattt attatttatt tttttttatt atattttttt atttatattt tttttt 416

<210> 12057

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-B4

<400> 12057

ccgacgcgtc cgcgagcgcg tggggataag gtactgtatg ttggaagagc acagaaggag 60
tgtgaaagag agatggagtt gaaggagaaa tttgaaaaga atgttcaaga ggtagctgag 120
aagttccaaa acacaaactt gtatttgaag aacttagagg agaacattga tgatgagaaa 180
ttgcgtgaac tctttgctga gtatggcaat attacttctt gcaagggttat gcgggattcg 240
aatgggtgtca gcagagggtc tggatttggt gctttcaaata ctgctgaaga tgctaaccga 300
gctcttacgg agatgaatgg caaaatgggt ggaagcaagc ccctttatgt agctcttgcg 360
cagcgtaaag aagacagaaa ggcaaagcta caggcacatt tttcacaaat g 411

<210> 12058

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-B8

<400> 12058

agcaatgcga gcgttcttcg ttctgtttgt acttaatacc atctattcct tcgactgggtt 60

ttctagggac gcttgccagc ctggcgtgtc tgtcgtgtaa ctctgtctgc acgcgcttat 120
 ttatatgcat ccttccttta agccgatttc cactcatatc tacctatagc gagctcatcc 180
 gcccttattg tctgtccacc acgcactaac tcaacttcacg atacttcgtc tttctgctga 240
 gtctactcct taccttcttt ttgcttacct tctactttat attttttatc ttatatgagt 300
 ggggttattt acatattttt cttaaatttct tcttttattt tctttttttt aatctttcta 360
 ctctttcttt cttttttcta tcttttttat tttttttctc ttattttttt tctttt 416

<210> 12059
 <211> 384
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-C1

<400> 12059
 cccacgcgtc cggctgccta ctctcagcaa cagcagtttc ttccattcaa ccaacttgct 60
 gcgttgaact ctgctgctta tttgcaacaa caactaccat tcagtcagct agctgctgtg 120
 agccctgttg ccttcttgac acaacaacag ttgttgccgt tctacctgca cgctgcgcct 180
 aacgctggca cctctttaca actgcaacaa ttgctgccat tcaaccaact tgctttgaca 240
 aaccaacaa cgttctacca acaaccatc attggcggtg ccctctttta gattgcttat 300
 gagttatagt tcaataatga agttttttgg atgatgtttg tggcttccca gaaataagaa 360
 agtacatttc tagattctta tgtg 384

<210> 12060
 <211> 325
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-C10

<400> 12060
 ggtgggctgg cttctcctcc ccctcctttt cgggttcaac ttctgcaggt tctacggcgt 60
 tctgatacat gtttgagcga atctagatat cagctgtacg atgatgaata ccgatgctat 120
 cgtcacagga catccctgat ccacacgact accactccct ctacaactcc ttaagcacct 180
 acgccaaggt accttattcc aaaatattac tcaacccta tacgcaaaaa tccaagctat 240

caacctgcgc ctctgctcgc agaccggacg taaccacgtt agggcattag cgcataaacg 300
gcacgttcca ttgactcatc cagat 325

<210> 12061
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-C12

<400> 12061

cggacgcgtg ggcattcattg gtgtgaccaa ggggaaaggt tacgaggggtg tggtcagtcg 60
ttgtggtgtc acccggtctc cccgcaagac ccacaggggt ctccgcaaag ttgcttgat 120
cgtgcatgg catccggcta ggggtctcta tactgttgcc cgtgctggtc agaatgggta 180

ccaccaccgc actgagatga acaagaaggt gtacaagatc ggcaaggctg gacaagagac 240
ccacgatgcc tccacagagt ttgacaggac tgagaaggac atcactccta tgggtggcgt 300
ccccattat ggtatcgtga agggtgacta cctgatgatc aagggctgat gtgtt 355

<210> 12062
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-C2

<400> 12062

ctatTTTTga tcacgttatt gaagccctaa attatgtcct aaaaggggac cgaactgggt 60
ggggattacc ctaatgggtg tccaaatcct cttcattggt attcccttct caaagaaatc 120
tgcggtcaaa tggattattc actaccccggt ctgcgtgctt tgggtggagct ctagggaaga 180
tagcacaac attgaggtct ctttcaaagt ttataggccg cagtgatact ctaccacatg 240
ttgatgcacg gtatccagcc atactattca aacagcagct tactgcatgt gtcgaaaaga 300
tatttgggca gctcagagat aatctaaaaa aggaaatata acctcttctt aatgtttgca 360
ttcaggctcc aaagtcaaca cgtgggcaat ctggaaaagc attcaagtca tctggagttg 420

<210> 12063
<211> 382
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-C4

<400> 12063

cccacgcgtc cgaaagccgg ccgagccata accgccgccg caggccattg ccgacttgcg 60
gtgaaccttg tcttgcaacg gttccaagt caagggccca ccgccaccgg ttgggaaggg 120
ccgccaaagg tatcccaggg aagcctgtga gcgaaggctg agagaggcca cgccgtccgg 180
agtctccagt tccgtcgcca cagcttcctg ccgcgcctgt gccgaggtaa acgagaggga 240
tcgaggaaga agtatcccc ggagcccctt ccccccgaacc cgaaggctcc ggaatggcgc 300
actgggttag cgacagtgat ggcagtgaca actttgaatg ggatagtgat ggcaatgggg 360
aggaaccagc gaacttcaat gc 382

<210> 12064

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-C5

<400> 12064

cgaagctaaa ccaggcatcg cttttgtgga gttcgaggac gacggccagt ccggggggggc 60
gatgcaggct ctccaaggct tcaagatcac cccggagaac cccatggcta taccctatgc 120
caaaaaatga gaaccctagg ggactctgta ccggctttgt ttcggtactc tagtattgat 180
cccaaatacca cgtgtgctga ggtggattgt ggtgtaaatt agtttaagtt acaccctaata 240
ctacctcaat acatgtagat tgagctcaat actagagtat ccaaactaga cctaagatct 300
ttccgctccg cctttagaaa tcgagccacg gtaccactt tccagtcagtg tgtttttgga 360
aagcactcgc ttgatttcga aattaaactc ttaacacttt taaatcaagg tttggccct 419

<210> 12065

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-C6

<400> 12065

cggacgcgtg gggccactac cctacttaac cgccccggcc tcagcctcat ccggggccgc 60
 acccatgccc gtgccaacag ccgcatccaa gcccgtgcc gctgcaggga acctgcggcg 120
 taggcagcac caagatcctg ggccagtgcg tcgagtttct gaggcattct tacaatcgat 180
 ccgaaatcca ctactgtca cctgaattcc agtctaaatt actgtaagtt acaccgttaa 240
 ttacctcaat acatgtagat tgatctcaat actagagtat ccaaactata cctaagaggt 300
 gggcgttcct cctttataaa tctagccacg taactcactt tttcagtcac gtgtttttgg 360
 aaagca 366

<210> 12066
 <211> 296
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-B10

<400> 12066

gcagactaca acatccaaaa tgagagctcc ctccaccttg tgctccgtct cgggggtggt 60
 cagtaagtca tgtgtcgttt aagctgccaa tgtgcctgcg tcgtctggtg ccctctctcc 120
 atatggaggt tgtcaaagta tctgctgttc gtgtcatgag ttgcgttaac attggattaa 180
 ttatggatcg cttgtcttgt ctgtgcgtac taccaggac tatcactatt catgattcaa 240
 gcttatgtat gcattcatac cacgtgctca atcttctata gtgtgaccta acttta 296

<210> 12067
 <211> 324
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-H3

<400> 12067

cccacgcgtc cgggtcaaagg agaggaagat catgtacact agtgaactgg agaagaaggt 60
 ccagactctg caaacggagg ccactacgct gtcagcacag ctgaccctgc tccagaggga 120
 tacaactggt ttaactgccg aaaacagaga gctcaagctt cggttgcagt ccatggaaga 180
 gcaagctaaa ctgcgggacg ctttgaatga agccctgcga gaagaagtcc agcgacttaa 240
 gattgccgca ggacaagtct tgtacatgaa tgggaacccc ttcaatggtg gactccatca 300

tcagagggca tcctatttcg tgca

324

<210> 12068
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-H4

<400> 12068

cccacgcgtc cgccggaagg aagagatgcc agagtcacat ggccatatgt ggaggacgaa 60
tcgtatatgt ggacatggct tttttttggt cactagctg cttacaccct gtggcaactt 120
atgtatttcc tcatagttaa tgtcctgcgc cggcagaggt tgttaaggga tcctgaactc 180
atcacatcct acagagagct ctcaaagaaa gcacagaaag caaacaacat ctggtggagg 240
ctgagcggac tgctgggtga ccggaaccgg caggtcatgt acatactgct ccaggcgctg 300
ttcacagtgg caacaatggc cctgacggtc cctatatcc tgtcctaccg gatgcacgtg 360
gtgttcctga tacttaaggt gtgcgcctcg acatggaaac ggtggcagct ttatcttgga 420
ggtgatg 427

<210> 12069
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-H5

<400> 12069

ggagctgcct ggaggcgggc tcctcgtgta ccagagcttc tgtgctgctg aaggcgcggg 60
tgctacctcg cccaaatctg ttttccactg ctttgacggc gagaacgtgg agagtgtcc 120
tcctcctatg aagaaggact acaagctggc taatcttctc tgctgggagg aggaagcgga 180
tgccatggag gagaaggcgg gagtgcctga tgagtaagac gggcttctg ggtcgatttg 240
cttctgagtt gtttatttta tctcgtcgca atttcgtggt tgcggttgg ttattct 297

<210> 12070
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-H6

<400> 12070

gcttgagtca gagatcccta agtttcgata cactgtccca gtggatttgg gactgcgagg 60
gaggagcagt tcatactccg cgtgccgcca tccgtcgag agcggatcga gcgcctcatg 120
aatgaatccg ccgcctcttc ctccaacccc gacgaggcct acctggacct ctcttctca 180
gaggatggaa gaaatggcac atttatgata ggtaatgaga gctttcctgc atctctcttg 240
gatctacctg ctgtggtgga gtcatacaaa acatatgatg attctgtact aattaaaact 300
gctgatgttg gtcagatgat tatggtaaga gaagaaaatg atcctgctcc agaaggagtc 360
gagtacaagc atgggcttac tcctccaatg agggatgcac gcaggcgacg tttccgcaga 420
gaaccagac 429

<210> 12071

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-H7

<400> 12071

cggacgcgtg ggaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaaag 60
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaataaatt aaaaaaatat ataaaaaatt 180
atattaatta aaaaaatatt attaattaaa taaattaaaa taataaaaaa aaaatattta 240
atataataat ata 253

<210> 12072

<211> 203

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-H8

<400> 12072

cagtcacca cactaacgaa cgaactcttg ctccgatcac gagctagctg agggcgacga 60
ttgccgctgt gcttaacagc aaggagaccc cgcaagttgt tgccgttctg ggtgggtggtg 120

gcgctgctgg cttcgtccgc ttcggcggca atcacttgcg ggcagggtggg gtcgtcggtg 180
 gcgccgcgta tcggtgcgcg acg 203

<210> 12073
 <211> 255
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-017-Q1-K1-H9

<400> 12073

gatcagcaaa gcggcagtg ctagagagga tcgtcgaaca gaacacatga aatgggatcg 60
 ntctcgtcgt gtgcctggct ctgtcagctg ccagcgctc tgcaatgcag atgccctgcc 120

cctgcgcggg gctgcagggc ttgtacggcg ctggcgccgg cctgacgacg atgatgggcg 180
 ccggcgggct gtacccttac gcggagtgcc tgaagcacgc tcagttcatc cagacagcgg 240
 cggtactta ctact 255

<210> 12074
 <211> 307
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-A1

<400> 12074

cagccaccca cccactcgct tcagccgttt ccgccgcgcg taccaagcag gtggagacgg 60
 gatgcctgct ggccacggcc tgcgtcgcg gacgcgcgac ctcttcgcgc gcccttccg 120
 caagaagggc tacatcccgc tcaccaccta cctccgcacc tacaagatcg gcgattacgt 180
 cgatgtcaag gtgaacggcg ccgtccacaa ggggatgccg cacaagttct accacggccg 240
 caccggtcgc gtctggaacg tcaccaaacy cgccatcggc gtttaggtca acaagcatgt 300
 caatggg 307

<210> 12075
 <211> 396
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-A11

<400> 12075

caaaaaaaaa aataaaaaaa actaaaatta aaaaacaaaa acaaaaaaaaa atagaaaagc 60
tacattttca aaattaaaac aatctccaac tgcttatacc aataccattt tcccacaatg 120
ctcacaaact cctataactt cccttcttcc cccataacctc tcaccatctg tatcttctat 180
atgttaaaac ccaattctta aaccctatac gatccaacat gcaatctcat ctttcatctt 240
acctttatca ccctttttcc ttcaacaatc atcaacccta ttacaacatt tacctttggt 300
tcattttattg tcacaaaaca tcatatcaca acaactacaa catactgttc tatcaaacct 360
ttctttataa tcttaacatc aatattttct ttctat 396

<210> 12076

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-A12

<400> 12076

gctgcttatt tgcagcagca aataactacta ccatttagcc agctagctgc aggaaagggg 60
acttccttct tgacacagca tcagctgctg actttctacc agcagtttgc ggctaacctt 120
gcaaccctat tacaactaca acaatcgtag ccctttgtcc aacttgcttt gacagaccca 180
gcggcctcct accaacaaca catcattggt ggtgccctct tttagatagc ttattagttg 240
taattcaata ataaagtttt ttggatgatg tatgtggcca accagaaata ggaagttaca 300
tttccaa 307

<210> 12077

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-A2

<400> 12077

aagtgttttc gtgttcacct tgtaagaat ggcaagagga ttgctgcctt cgtgccaaat 60
gacggttggt tgaactacat tgaggaaaat gatgaggtct tgattgctgg atttggtcgt 120
aaggagcacg ctgtgggaga tattcctggt gtccggttca aggtcgtaa gggttccggt 180

gtgtctctgc ttgccctttt caaggagaag aaagagaagc caaggtctta gattgctctt 240
gctaccaaaa tcagcaagcg tggagttgaa acgggagggc gttagatgat taataagaat 300
ggttgcttgc tatgtttgca gtgcattcgt gcaattgtta acctaagatt ttgttggtga 360
aaacgatttc ttttcagact tgcttctgtt gagtgtatc attccatata atgtacttc 420
ctc 423

<210> 12078
<211> 205
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-018-Q1-K1-A3

<400> 12078
atgcagataa ttgagcaaaa tttgtccaag caacctcagc tgagccaacc agacactggg 60
gatcaaatac gaattgatct ggaaagcact accaatcact tgcaaccaa ctacgatgaa 120
aattctatgc tgcaatctgg tttctcttgg gctcctgaac agaacagaag agcccctact 180
acagatttct ggaaaaatgt tgaaa 205

<210> 12079
<211> 369
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-018-Q1-K1-A5

<400> 12079
gcaaaccaga tcaattgggt tactttgttg aggggtgatg gcggtgtctt gcgcaaacct 60
cagctccgag gcagggctta aaaagcttga tgagtacctt ctcaactgca gctacatcac 120
tggctaccaa gcttccaagg atgacttggc tgtctacact tcgttttcgt ctgctccctc 180
gtccaagtat atcaacgtag caaggtgggt taatcacatt gatgcgctcg tgaggctgag 240
cggaattact gcaaagggcc aaggtgtgaa ggttgaatcg tcagcagttc cgtcagcccc 300
aactccagat gttgctgaat cacatgcccc agttgctgaa gaggacgacc actatgattt 360
tgacctttt 369

<210> 12080
<211> 230
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-A6

<400> 12080

cccctgctga caccacacca cttcctatat actctcccgc ccgctgctgc cctcggtccg 60
cgtaacatgc ccgtcaccaa ccgatactac accctccagc atggccgttg cgactgcaa 120
cgccgcgaca gccctggctc ttgcgctcga tctctcgtc gcggacacca actctgaggg 180
cgacgcgctc tccacgcttc tccacatcct aaggtacccc atctacattc 230

<210> 12081
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-A8

<400> 12081

gggtcttcag accattagct ttatctactc cagagcgcag aagaacccga tcggcacgat 60
gaggggtgttg ctcgttgccc tcgctctcct ggctctcgtc gcgagcgcca cctccacgca 120
tacaagcggc agctgcccgt gccagccacc gccgcgggtt catctaccgc cgccgggtgca 180
tctgccacct ccggttcacc tgccacctcc tgtgcatctc ccaccgcggg tccacctgcc 240
gccgcgggtc cacctgccac cgccgggtcca tgtgccgcgg ccgggttcac tgccgcggcc 300
accatgccac taccctactc aaccgccccg gcctcagcct catccccagc cacacccatg 360
cccggtgcaa cagccgcac ccaagcccgtg ccagctgcaa ggaacctgcc gcgttggcag 420
caccgccatc ct 432

<210> 12082
<211> 249
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-B1

<400> 12082

cgaaaagtct gatctgaagc cagcagacgt gaaaccgaca gcacgtacgt acgtacgtgt 60

gagggctgct cggcgcccat gggagaatgg tgcttcaaga aacgcgcagc tctgggtgatt 120
 attgtggcca ttattagctc gctgcagctg ctctgataa ctgctcaaga agctggagga 180
 gaccacgagg tgtggtcgtc gtcctcctcg ccggccggtg gtcgtggtgg cggcgccgctc 240
 gtcgtcccg 249

<210> 12083
 <211> 436
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-017-Q1-K1-F9
 <400> 12083

caatcgccag ccctatcttt ggtgcagtca ttggtacaaa ccatcagggc acagcagctg 60
 cagcaactcg tgctacctgt gatcaaccaa gtagctctgg caaacctttc tccctactct 120
 cagcaacaac aatttcttcc attcaaccaa ctgtctacat tgaaccgtgc tgcttatttg 180
 cagcaacaac tattaccatt cagccagcta gctactgcct actctcagca acaacaactt 240
 cttccattta accaattggc cgcactgaac cccgctgctt atttgagca gcaaatacta 300
 ctaccattta tccagctagc tgcagcaagc cgtgctttct tcttgacaca gcaacagttg 360
 ctgcctttct accagcagtt tgccgctaac cccgcaacct tcttacatct acaacaattg 420
 ttgccctttg tccaac 436

<210> 12084
 <211> 400
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-017-Q1-K1-G1
 <400> 12084

atttgagcat tcagaaacac accaagctaa gcgcactagc aacaacctaa caacaatggc 60
 tgccaagata ttatccctcc ttgcgcttct tgccgctttt gcgagcgcaa caaatgcgtc 120
 cattattcca caatgctcac ttgctcctag ttccattatt ccacagttcc tcccaccagt 180
 tacttcaatg gccttcgaac acccagctgt gcaagcctat aggctacaac aagcgattgc 240
 tgcgagcgtc ttacaacaac caattgccca attgcaacaa caatccttgg cacatctaac 300

aatacaaaacc atcgcaacgc aacagctaca acagtttcta ccatcactga tccacctatc 360
catggtgaac tctgtattct tattgcaaca actgtttttt 400

<210> 12085
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-G10

<400> 12085

cggacgcgtg ggttcaacat ggaagatata gaggagggat ttgaaggta cgaggatggg 60
aggtcactgc ttatgtctca gaagagcttg gagaaacgct ttggccagtc tccaattttt 120

attgcatcca cctttatgac tcaaggtggc atacccctt caacaaacc aggttcctg 180
ctaaaggaag ctatacatgt cattagttgt ggatatgagg ataaaacaga ttggggtaaa 240
gagatcgat ggatatatgg ctctgttact gaagatattt taactggttt caagatgcat 300
gcaggagggtt ggatatccat ctactgcatg ccacttcggc cttgcttcaa gggttctgct 360
ccaatttacc tttctgatcg tcttaaccaa gtgtta 396

<210> 12086
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-G11

<400> 12086

cccacgcgtc cgggggatac agcttggcag aatttgatgg agcgtagaac ctccgacggg 60
acatacaatg cctggcggcg tgagcctgag gagggaccta taatgtactg cagccgcact 120
atTTTTgagg atgctactcc tgaactgggt agagatttct tctgggatgg tgattttcgt 180
ctaaagtggg atcccatgct tgcattttgc aaatctttgg atgagttccc tcagaatgga 240
gcaacaattg tccactggat aaaaaagttc cgtttctttt gcagtgaccg tgaatacatc 300
tttgaggagc gcatatggta atctgggaag acttactatt gtgttactaa ggggtgtcca 360
tatccatcat tgcccatgaa agaaaaaccg aggcgtgtgg agctgtactt atcaagggtg 420
cgtattaga 429

<210> 12087
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-G12

<400> 12087

accttccct acaccagaaa aatccccagt tctttggtcc gcgtcagaga ggcggcgggg 60
atgtctgggc gcggcaaggc cggcaagggt ctgggcaagg gcggcgcgaa gcgccaccgg 120
aaggtgctcc gcgacaacat ccagggcatc accaagccgg cgatccggag gctggctagg 180
aggggtggcg tgaagcgcat ctcggggctc atctacgagg agaccgcgg cgtgctcaag 240
atctttctcg agaacgtcat ccgcgacgcc gtcacctaca ccgagcacgc gcgccgcaag 300
accgtgaccg ccatggacgt cgtctacgcg ctcaagcgcc agggccgcac cctctacagc 360
ttcagaagct aggctaggcg cctgttcgta gtcggtgact ggtagggga catgtctctg 420
ggtgatgctt tttgaggtag tatt 444

<210> 12088
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-G2

<400> 12088

cagagtgtga gaatagtttg tagggttgct atcaaccacc aaaaagggcg agattgaggg 60
catgtatgcc cgtggttggt tttagtaatt aatgacaacg taatattata tgtgactaac 120
gtgtgttctg cagagcaa at ggtaagttag attgtattac aggaagttgt actacaacgg 180
tgaatacaat cactgagatg agaacttgaa gcaacagctg aaacgacgaa tcaaaagatg 240
aatgtcttca tattccaagt gtcattgagtt gcggacactt tgtatagaat tatgtcttct 300
attgtatttt atccatacta ttaagaggag ttgtggatga gttattttga ccaagataat 360
gctagtgtat tggtgtatca tattgcacac tctattacta gtttaactct a 411

<210> 12089
<211> 405

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-017-Q1-K1-G7
 <400> 12089
 gccgccgcca ccgaagcggc ctcccaggta agcaggatcg tccagcccgc cgccgccagg 60
 aagcgcaatc cccgcgtcac gagctcccgc cggaagtgcc gcaaggcgca ctttacggcc 120
 ccgtcctccg tccgcgtgt tctcatgtcc gccgggctgt cgacggagct ccgccacaag 180
 tacaacgtgc gctccatccc gatccgcaag gacgactagg tgcaggtcgt gcgcggcacc 240
 tacatggggc gtgaggggaa ggtggtgcag gtgtatcttc gtcgctttgt tatacatgac 300
 gagcgggtca cttttgttat tttttatctt ttcattttta ttttttattt tttctacttc 360
 ttttttattt tttatttctt tttttttttt tatgtttttt tattt 405

<210> 12090
 <211> 420
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-017-Q1-K1-G9
 <400> 12090
 attttgagca ttcagaaaca caccaagcga agcacattag caacaaccta acagcaaggg 60
 ctaccaagat attatccctc cttgcgcttc ttgcgctttt tgcgagcgca acaaatgcgt 120
 tcattattcc acaatgctca cttgctccaa gttccattat tacacagttc ctcccaccag 180
 ttacttcaat gggcttcgaa caccagctg tgcaagccta taggctacaa caagcaattg 240
 cggcgagcgt cttacaacaa ccaatttccc agttgcaaca acaattcttg tcacatctaa 300
 cagtacagac catcgtaact catcagcatc acaattcct accagcactg agccacctag 360
 ccattggtgaa ccctgtcgcc tacttgcatc agcagttgct tgcacaaac ccacttgctc 420

<210> 12091
 <211> 374
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-017-Q1-K1-H1
 <400> 12091

atcacgcgta cctggaatcg ccatctacag acccgcatcc agggcatttc catactacag 60
cgagcgagct ttacatatca tatccaaaat cacctacgcg ttcaagatac attggttcta 120
catcatcacc acccctaacc ccggtgttcag ccacctggct gggaatactt ccgtctggaa 180
cgccatattt cctgatgtgc tgcaggcatt cttcaacacc actcctgaga tggataaact 240
gttccgcttc aagatgctcg actcgtagat ctttttcgcg ccttttcagct tcaactgaaa 300
caccagctct tcaatacttt ttatatgaga tcgttcttga ttgttgtcaa tgtcattgat 360
attaataatt aaat 374

<210> 12092
<211> 405
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-017-Q1-K1-H10

<400> 12092

gcgcgacgtc gacaggcaca acgtctgcgc catggaggtg aggcacagcg tcgaacgggt 60
ggaccaggcc gacgtctaca gccctggggc tgggaggatc acacgcctca ccagccacaa 120
gttccccgtc ctcaacctcg tacagatgag cgcggtgcgg gtagacctgt accaggacgc 180
catcatgtcg ccgttctgga acttcaacgc ccacagcgcc atgtacggca tcaggggcag 240
tgcaagggtc caggtcgcca gcgacaacgg gaccacgggtg ttcgacgacg tgctccgtgc 300
ggggcagctg ctcatcgtac ccagggtta cctcgtcgcc accaaggcgc atggagaagg 360
cttncagtac atcgccttcg agacgaaccc tgacaccatg gtcag 405

<210> 12093
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-H11

<400> 12093

cggactcgtg gtcggactcg tgggaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaggaaga 60
gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg gctcggccgt 120

tttaaaggtc ccaaccttcc ttcccttcc ttccaacttc ataccttttt tatagtgcc 180
 cctaatttca ttctactgcc cttcttttaa caccttctta cctggaaaac cctgccttt 240
 cccaatttta ttccctttgc atcacttccc cttttccctt gttgccttat taccaaata 300
 ccccgtaact atcgctcttc caatcatttt ccacacctta ttgtctattg tacccttct 360
 ttttctgcc cttatatccc tctttttttg gttttaactc tcattttacc ctttttattt 420
 tcttttcttt atttcttttt tt 442

<210> 12094
 <211> 244
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-F8

<400> 12094
 cgaattgcaa tttcgacctt gacctacgca tgcgcataag catacttcca atcgttttca 60
 taaacctcca aaaagtcaaa tatagagagc agttaagaca ctgggtaggg ccagtcatta 120
 ataaaatcat catattatat atgactaact attatatttc aaatcatatt gaaaattaga 180
 ttgtatacag aaagtattac aacaactctt aaaacaatct cttatatgat aactttaatc 240
 tatt 244

<210> 12095
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-E2

<400> 12095
 aattgactgt tagcttataa gattctagtt caccattgaa gaaattgcgt caaatgtgg 60
 aagctttatc cagctcaagt gcagtttggt caagaagtgc tggagctcca ttatattggg 120
 ctgaggtata ctgtggtggg caagcatcaa caggaagatg ggtacatggt gatgttgtga 180
 ataattcat tgatgctgaa cagaatgtag aagcttcttc tgccgtttgc aagaagcctt 240
 taagatatgt tattgctttt gctggaaatg gagccaagga tgtaaccaga aggtattgct 300
 tgcagtggca cagaattgca caaggcagag tgaattcaga gtgggtgggat aatgttttgg 360

cgccactaat acagatggaa ctggcagcaa caaacaacta tgaagacatg gaact

415

<210> 12096
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-E3

<400> 12096

ctggaattct atgacaaggg tgttgcgct cttaaaacc tcgatgtgat gaaagccggt 60
attgacagca tggtaaatgg cacctcaatg gatgatgatg atatcgagaa gaccgatgca 120
tctcccaaga aaagcaagaa aaagaagacc aaaaccaagg ctgatggtga tgcaatggac 180
gtggataaac cctccaacgt tgctggtgga gaagctgagc ctggaactga gaagaagaag 240
aagaaaaaga agcataagct ggaggaggag gcacaggagg agaacggtgc agcagatact 300
accctaaga aaaagaaaaa gaagagccgt gaagcttccg aagaagctga acctaagacc 360
gtcaccgatg gtaagaagaa gaaaaaag 387

<210> 12097
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-E4

<400> 12097

cccacgcgtc cgcggacgcg tggggacctt tcttccagga cacaagtggg acatcatggt 60
agagcttttc ttctacagag acccagagga agcgaagcag ctggaggaag aagaggctct 120
ggttgcacct gactatggcg cggttgcaga atacactgca ccaggcgctg acaactgggg 180
cggatgaatgg ggtgctggcg aagctgcagc tccagctgct agcattccag ctgctggcgc 240
agactgggct gctgctccag ctctcctgc tgacggtgct tgggacgcag ctgttgctcc 300
agctgcagca gcagcccccg gatgggaaca aggcgcggcc cccgttgccg cgtcgacccc 360
tacctgggag taattaataa agagttaatg atcatggtgg a 401

<210> 12098
<211> 376
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-E5

<400> 12098

cccacgcgtc cggttggcca atcaattata cagaaatttt gggcaagagt cctgggtggg 60
ggccctgctc ttcgtgctgt tgcttcaatg agcagggctg attgggcagc aaaacttaag 120
cattggaagg atgaattcgt ttgtacactg cagcattact ggtagggac aaaactactc 180
tgggcagatg ttaggatctc atcaagattg ctggtgaaac ttgctggggg gaagagcctt 240
tcaagaagag agaggcaaca gctgacacgc acaacatcat atatcttcag gcttgatccg 300
ggggctgtgt tcatcattgt tccattcatg gaattcttac tgccagtctt ttttaagtta 360
tttctaaca tgcttt 376

<210> 12099

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-E6

<400> 12099

cgagatatgg cggacggcaa gcgtggggag gattcggccg tggcggtgaa gacggcggcg 60
tcgtcggcgg tgatggctgg gggtttacgc ggcgtgagca accctctgga ggagtggagc 120
gggcgcggtga aggcgattga ggccgggttc cgcgcgtgga tggcgaagca acccatccaa 180
atcgaggccg cggtgaccac ggccgtgggg gcggtgcagg gcggggctct ggggtgggctc 240
atgggctcgc tcacagctga cggcgggtcg ccgttcccca tcccgcagcc gtcgtccaac 300
gggacccata ggccatggcg tcgttcaagc aggcccaggc tttagctggg ggacctttgg 360
tgc 363

<210> 12100

<211> 198

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-E8

<400> 12100

ggccaccttg gtatgtcatc atttaggtca taggatagga gagcataaga gggtagcggtt 60
 ctgatattgg gggcctggac tcacctgtac aaatgagttg gaaacaacca gccagcatgt 120
 ttttttatct atttgattgg atggacataa gcgctcacct tggaagaaac taccagatt 180
 ttaccgaatg attttgct 198

<210> 12101
 <211> 353
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-017-Q1-K1-F1
 <400> 12101

gcagctacca aattgttcaa ccaggcatat gaaatccttg gatatgactt gctggatctg 60
 ggcaccaatg gaccaaaga aaagcttgac tcaacaatga tcagtcagcc agctatatat 120
 gtcaccagcc ttgcagcagt agaggtacta cgtgcacgcg atggaagcca agatgtgatt 180
 aactctgtag atgttacatg tgggtctcagt ttgggagagt ataccgctct tgcatttgcc 240
 ggtgctttta gctttgagga tggactgaag cttgtcaagc taagaggaga agctatgcag 300
 gatgcttcag atgctgccaa tagtgcgatg gttagtgtga ttggtctgga ttc 353

<210> 12102
 <211> 384
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-017-Q1-K1-F10
 <400> 12102

cattttcctt gcaaccgatt gcctatcccc ctccaacca aagaccgatg gcgccaagg 60
 ccgagaagaa gcccgcgcg aagaagccgg cggaggagga gcccgcggcc gagaagacga 120
 ccgcccggaa gaagccaag gcggagaagc ggggtccccg gggcaagtcc gccggcaagg 180
 agggcgggca gggcaagcgt ggcaagaaga agggcaagaa gagcgtggag acgtacaaga 240
 tctacatctt caaggtgctg aagcaggtgc acccgacat cggcatctcc tccaaggcca 300
 tgtgcatcat gaactccttc atcaacgaca tcttcgagaa gctggccggc gaggcctgca 360
 agctcgcgcg ctacaacaag aagc 384

<210> 12103
 <211> 372
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-F11

<400> 12103

cccacgcgtc cgggcaaacc ccccaagttc gcctgggggc acagcacctg cgtggttggc 60
 ggcactaggg tcctcgtcct cggaggccac accggggagg agtggatact gaacgagcta 120
 catgagctct gcctggcaag caggcccgac gacgacgacg atgaccgcta ctgactagtt 180
 tcgttgcaca tggttcatct gttttatatg ctatatgcta ttgttcgtaa ctacttcag 240
 tatgttggtg ggtaatcggc atgagaaaaa atagtggaaa attaattaaa aaagtttagc 300
 tagaagattt tagtgtattt tgttttcacg ggagaagttt tcttttatcg gtctagatag 360
 attctatggc ct 372

<210> 12104
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-F12

<400> 12104

tcttccttgg ggagacgttt ccaattccag tatatctttc tcttcttcca atggttgggg 60
 gttgtgctct agctgctgtc acagagctga actttaatat ggttggattt atgggtgcca 120
 tgatatccaa ccttgcattt gttttccgca acatcttctc gaagaggggc atgaagggga 180
 agtccgtcag tggcatgaat tactacgctt gcctgtcaat tatgtccctg gtcatactga 240
 ctccatttgc tatagctatg gaaggccctc aaatgtgggc tgctgggttg caaaaggctc 300
 ttgcagaagt tggaccaaat gttgtctggt ggattgctgc acagagcgtg ttctaccact 360
 tatataacca ggtgtcctac atgtctctcg atcagatttc tccattgaca ttcagcattg 420
 gcaatacaat ga 432

<210> 12105
 <211> 410
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-F3

<400> 12105

gagagatgga aattcagatg cttatgatta tacagaggct gctggacaaa ttcattggagt 60
ggaggactat agaggactgc caagtgcttc tggatttctg gtgcaagact gaggctacat 120
gaggctcatg ctggttcttc tgagtctgtg gtggagatcc agggcacact ggaccaagca 180
aaagctgcgc agagcctcct ggagggcttt atcagcgca acagcaggca gcagcaatcc 240
cattcttctc gcatgccact ttaccaaga tgggatagc ttctggttgt ggcaggggaa 300
aaccgagtca gcaaggttgg ctggagttat cttagactgc agattagatt catcgatgat 360
gttaatggta gctgtttaa ttgaccgtgc aagcctgata acttatatta 410

<210> 12106

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-F5

<400> 12106

accttctcca cggaggaggc gattcggaac gccatcgagg gcatgaacgg caaggggagg 60
gacggccgca acatcacctg caacgaggcc cagtcgccg ggcggccgtg aggcggcgcc 120
ggtgggtacg gtggtggccg tggaggcggc ggctacggcg gtggcgggcg ccgtgatggc 180
ggtggcggtc acggcggtgg cggcggtac ggtggcgggc ggcggctacg tgggtggggc 240
ggcggtact gcggtggcaa ccgtggcggc tgcttctgca actcctactg gaactggagg 300
agctgagcgg ttgtgcccgc tcggtcaagt tatcctgttc gctaccgtga tgtttaccct 360
agtcagatg gtttatcttt ctctgtgtcg tggttgttgt tgc 403

<210> 12107

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-F6

<400> 12107

gggacttgga agtgggtttgc tggaaatctg gcttctggtg gagctgctgg tgcgtgcgct 60
 ctattctttg gctatgtctc tggactacgc ccgtagcggt ttggccaatg atgccaaggc 120
 tgcaaagaag ggtgggtgaga ggcagttcaa tggactcggt gatgtttacc gcaagaccct 180
 tgccagtgat ggtattcggt gcctctaccg tggattcaat atctcttggt tggggatcat 240
 tgtgtaccga ggtctttact ttgggtatgta tgattccctg aagccagtgc ttcttggttg 300
 taccctgcat gataacttct tggccagctt cttgctcggg tggggataaa ccattgggtgc 360
 tggccttgcc ttctacccca ttgacactgt tct 393

<210> 12108
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-F7

<400> 12108

gatcaccctt gaggtggagt cctcagacac cattgacaac gtcaaggcca agatccatga 60
 caaggagggc attccaccgg accagcagcg gctgatcttc gccggcaagc agctggagga 120
 tggtcgcacc ttggctgact acaacatcca gaaggagagc accctccacc tgggtgctccg 180
 cctcaggggt ggtatgcaga tttttgtgaa gacattgact ggcaagacca tcaccttgga 240
 ggtggagtcg tctgacacaa tcgataatgt caaagccaag atccaggaca aggaaggcat 300
 tccaccggac cagcagcgcc tgatctttgc tggcaagcag ctggaggatg gccgtaccct 360
 cgccgactac aacatccaaa aggagagcac cctccacctg gtgcttcgct tgcgaggtgg 420
 tatgca 426

<210> 12109
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-E11

<400> 12109

cccacgcgtc cgcacaagca acatagaaag tggaatccag tagcaacaac agagcaagaa 60
 tggcgaccaa gatattttcc ctcccttatgc tccttgctct ttctgcatgt gttgctaacg 120

cgacaatttt ccttcaatgc tcacaagctc ctatagcttc ccttcttccc ccataccttc 180
catcaatgat agcttcagta tgtgaaaacc cagctcttca gccctatagg ctccaacaag 240
caatcgcagc aagcaacata cctttatcac ccttggtggt tcaacaatcg ccagccctat 300
ctttggtgca gtcattggta caaacatca gggcacagca gctgcagcaa ctcgtgctac 360
ctgtgatcaa ccaagtagct ctggcaaacc tttctcccta ctctcagcaa caacaatttc 420
ttccattcaa ccaact 436

<210> 12110
<211> 430
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-017-Q1-K1-C8

<400> 12110
cccacgcgctc cggttttgat aaataggtac tcagggaaaa tacagtgtga accatagcga 60
gaatgccttg agttctctta acacaaaaat cctaatacaa agtgcaaata aagtgtagcc 120
atctcaacaa tcaaacaatga catcatagaa accaaatatg agattgctca agcttcaaca 180
gcaacccttc cagccacctg gtccagatca cgccttcctt gggagggtgat ggcgcgtcca 240
cccttgggat cgacatcaat gatgcccac tcctgcagct gctggaggat gttgcgtgaa 300
atggcaccac tgctcttgca gaagtggagt gggcgtgagc cattcctctg gcggccacca 360
taaattctct ggaagccacc aacaccaatg ccttgtctca agtagatctt ccttgctaca 420
gatgcagccc 430

<210> 12111
<211> 345
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-017-Q1-K1-C9

<400> 12111
ggctggcaag agcatggcgc ttgtcggcat gagcggctcc ggcaagagta ccgtgctggc 60
gtcatcctc cgcttctacg acccgatcgc cggaagagtc ttgatcgatg ggaaggacat 120
caagaagctt aagctcaagt gtctcatgaa acacatcggc ctggtccagc aagagccggc 180

gctgttcgcg acgacgatct acgacaacat cctgtatggc aaggacaggg ccacggaggg 240
 cgaggtcggt gaggcagcca agctggctaa cgctcactcg ttcattgagct cgtttccggg 300
 ggggtacatg accatgggat gtggagcgcg gcttgcatct gtcgg 345

<210> 12112
 <211> 414
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-017-Q1-K1-D1
 <400> 12112

gccagggacg ccattgccaa ggctaattccg gtggtgaagg cagacaagct cgacaagagc 60
 tagggnggggt tccctacggt tgggtatcag gaagattgta aaccgcggta actcgtcatg 120
 cggaactgct gccttgcccc ccgcgccttt ctcttccatg tttgctgcta caatcttggt 180
 gttgggcatt gcagtgcacg gtgcacaact gtgtagcccg cctcgagaat tcctgcctct 240
 gcatctggtc agttctaaaa tgatttgcatt gttggctatg ttgtgtaagc tctatttatg 300
 gtggtctcgc tgagacgggt atttggtctc gcagttatct agctatgtga tgtactgttg 360
 tcttgtccct ggggtattata tggtagactg cagccagtaa tagtataaaa tata 414

<210> 12113
 <211> 432
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-017-Q1-K1-D10
 <400> 12113

ctgctttcat ctagccctct cggtgtgggt aatgcaccta catacctgca acaacaatgt 60
 ctgcaacaga ttgtaccagc tctgactcag ctactgtgtg caaacctgct tgctacttg 120
 caacagctgc ttccattcaa ccaactgact gtgtcgaaact ctgctgcgta cctacaacag 180
 cgacaacagt tacttaatcc actagcagtg cctaaccatc tggtagctgc ctctctacag 240
 cagcaacaat tgctaccata cagccagttc tctttgatga accctgcctt gtcgtggcaa 300
 caaccatcg ttggaggtgc catcttttag attacatatg agatgtaatc gataatgggt 360
 cccttatacc ggcattgtgt tcctagaaat aatcaatata ttgattgaca tttatcctcg 420

ataaaaaaatt ta

432

<210> 12114
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-D12

<400> 12114

cgagacgcgtg ggcaccatct gccgactggt agcagagaga agagatagac cgagagagag 60
agagagaatc tgagactgag actggttagca gctgaagcat cgggtgctagc tagcttgggc 120
agcaacatca cgatgtcgtc caactgcggc gaggatgaga aggagctggt gtgcgtgacc 180
ggcgccggcg gcttcacatcg ctcgtgggtg gtgaatgagc tgctccagcg gggttaccgc 240
gtcaggggaa cggcgaggga ccctgctgac agcaagaacg cgcacctgct ggctctggag 300
ggagccaagg agcgcctcac cctgtgccgc gcctacgttc tcgaccgcgc ctccctgctc 360
gccgacttcg ccggatgtca cggcgtatgc cagtcgtct ctccggtgtc caacgaccc 419

<210> 12115
<211> 246
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-D2

<400> 12115

agcgccggcc agccggtctc caatcctgca atccctccaa tatccaatag gggatgaggt 60
gcagcgagca agtccaataa cctacagtgc ttggaatttg tggaaggaga gatgctggcg 120
aatctttgat aacagacttt gctttgtact ggatgagaag gcagagcacc tgccaggctc 180
caatcctgcg tcagcgttcc tgctccctg gctccctgcc gtctactcgt ctccaagaat 240
catgct 246

<210> 12116
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-D3

<400> 12116

agggcacaac aactacaaca acttgtgcta gcaaacttg ctgcctactc tcagcaacag . 60
caggttcttc cattcaacca actagctgca ttgaactctg ctgcttattt gcaacaacaa 120
ctaccattca gccagctagc tgctgcctac ccccaacaat ttcttccatt caaccaactg 180
gcatcattga actctctctgc ttatttacag cagcaacaac tactaccatt cagccagcta 240
gctggtgtga gccctgctgc cttcttgaca caacaacagt tattgccgtt ctacctgcac 300
gctgcgccta acgctggcac cctcttacia ctgcaacaat tgctgccatt caaccaactt 360
gctttgacaa acccagcaac gttctaccaa caacccatca ttggtggtgc cctcttttag 420
atttct 426

<210> 12117

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-D5

<400> 12117

cccacgcgtc cgaggaaacc tagccgccat atctcacgat ccaactcgagc accgagcgga 60
gggaaggatga ggagcgatgg cgcgggcgt ggtgtcggcg aaggcgggcg cggtcgcggg 120
caagaagaag gggtcggttt cttcacgat cgactgcacc aagccagtgg aggacaagat 180
catggaggtc gcctcgctcg agaagttcct gcaggagcgc atcaaggctg ccggcgggcaa 240
ggctggcaac ctgcggcact ccgtcaccat ctttcgcgag aagaccaagg tcaccgtcac 300
gggggacgga cccttctcca agaggtacct gaagtacttg tccaataagt act 353

<210> 12118

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-D6

<400> 12118

cccacgcgtc cgcccacgcy tccgggaata tgatgctctg agggttattt tcaagaaggt 60
ccaatctgtc atatcgttta agcccacaat ggtaacaata ctttcccccg aggttgcaga 120

aaaagaatca gaagctggtg ggaagatggg tgacctagat tcttatgaga ttgaaggcgg 180
 cgagacaaaa tcagagattt tgcagaatct agctgagttc cagttttctt gtgtcctgta 240
 caatggtgcc ctagagaatg catgcagtga gcttgagacc cgtatgtctg ccatggacag 300
 ctctagcaga aatgctggcg atatgcttga tcgtctcact ctcacttaca acaggacacg 360
 ccaagcatcc atcaccacag agcttactga gattatatct ggtgcatcgg cccttgaggg 420
 gta 423

<210> 12119
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-D7

<400> 12119
 cccacgcgtc cgtgctaaca tggagctgca acgtgagctg tttattttct gtcagactgt 60
 atgtaccgac cgaggtagga gggaaatgtt gtggcctttt gtaagcaggt cattggatgt 120
 ttattttaga ttattttttg gcgttttacc cacactaccc ttgaaactta ttgagttctt 180
 atccagcaaa taagattatg taatcctgga ttatataggt tcaaagcttg ggacagcaat 240
 ttgttttagag tcctgtataa tctagctgtc acgtctcatg actcacgttg agaaagatga 300
 ggggatttgc atcgtttatg gtttagtaag tggcttatta ttatattttt atttagtttg 360
 gccgtttttt agtatccaat ctttattttac gcttgcatc tactttatat ctattttta 419

<210> 12120
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-D8

<400> 12120
 cgagctcgct ccttccttcc acgtcgaggt ccgagtcctg ctttgatggc gacggacggg 60
 gctgagactc ccgcgccgtt ggtggatgcg gcccagagg cggccgccga cggccggcg 120
 gcgcctgctg ccgacgcgaa gccggccaag gccagaagg ccaccgcgcc gaagaagcgc 180
 gccagcccga cccaccgcc gtacgccgag atgggtctcg aggcatcac gtcgctcaag 240

gagaggacgg ggtccagcag ctatgcgatt gccaaagttcg tggaggacaa gcacaaggac 300
 gggctcccg ccaacttcg caagcttctg aacgttcagc tcaagaagct cgtcgctgc 360
 ggcaagctga ccaaggtgaa gaactcgtac aagctggcgt tcgccgtcac caagccgaat 420
 tccaagc 427

<210> 12121
 <211> 290
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-D9

<400> 12121

cgtccgattc cgggtcgccc acgcgtcgcc cagcgtcgc cagcgtcgc cagcgtcgg 60
 gacctgggtg agcgggggaa acacactagc gaagcgcata cagcacctaa caacaatggc 120
 ttacaagaca ttatccctct tgccctttgc cttttggagt gcaacaaatg cgttattatt 180
 ccaaagctca ctgctcagtg ccattattcc acagtctcct ccagttctta atgggcttcg 240
 aacacccact gtgcaagcct ataggctaca acagcgcttg ctgcagcgtt 290

<210> 12122
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-E1

<400> 12122

ataccttcca tcaatgatag cttcagtatg tgaaaaccca gctcttcaac cctatagggt 60
 ccaacaagca atcgcagcaa gcaacatacc tttatcacc ttgtttcaac aatcgccagc 120
 cctatctttg gtgcagtcac tggtacaaac catcagggca cagcagctgc agcaactcgt 180
 gctacctgtg atcaaccaag tagctctggc aaacctttct ccctactctc agcaacaaca 240
 atttcttcca ttcaaccaac tgtctacatt gaaccgtgct gcttatttgc agcaacaact 300
 attaccattc agccagctag ctactgccta ctctcagcaa caacaacttc ttccatttaa 360
 ccaattggcc gactgaacc cgcgtgctta ttgcagcag caaatactac taccatttag 420
 ccagctagc 429

<210> 12123
 <211> 366
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-E10

<400> 12123

caccgctaaa ggtgctgaat tctgtgtatt cagaccctcc gagattgctg ccaggggtgc 60
 acttgctgct atcggcgaat gcaggagttc tgtaattgag agagctgcta gtagctgcaa 120
 atatttggac aaggagaggg ttttaagatg ccatgaaatg attcaagaga agattactgc 180
 gggaagcatt gtcctaaagt ctgctggatc atcaatctgc tctgtgccac aaagcccaat 240
 atgtgtactg gacgctgcat cctgtctgag tcaacaaagc gatgactcta ctgtcgggtg 300
 tgctgcagta tgttaccata gttcttccac aagcaatagg agaaagatca ctatacgtct 360
 actcta 366

<210> 12124
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-C7

<400> 12124

cgccgttgta gcgacttcgc aggctaaagg ccagctttca aaggctgcta aaacgcagga 60
 gtcgaactct tgtctgatat gcttggtgct cgttattttc ggagtgggtcc tgctcatagt 120
 gataatagta cttgcagcct aaaagcttgg aaggcagctg gggttccgaa atctgatcga 180
 gagcttattg cgacaaattc cttcataagt tattttttgct gtgctgctag gaatgattcc 240
 tggtagccat gcggtgattg gcgctctgct tgtggtgtgg cggatatatgt ggtgatgatg 300
 gggctctgatg cataaaagta ctctttcttg caagtgtatt gcctcatgca cggttttgtt 360
 tatatattgt gatgtattga tgcttgatgt ataacaaggt tggat 405

<210> 12125
 <211> 199
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-B11

<400> 12125

aactacaaca attgttgccc tttgtccaac ttgctttgac agaccagcg gcctgctagc 60
aacaacacat cattggtggt gccctctttt agattgctta ttagttgtaa ttcaataata 120
aagttttttg gatgatgtat gttgccaacc agaaatatga agttacattt ccagatgtta 180
atgtgaaaaa aaaaattga 199

<210> 12126

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-B12

<400> 12126

gatcgtcgaa cagaacagca tgaagatggt catcgttctc gtcgtgtgcc tggcgctggc 60
agctgccagc gcctctgcaa tgcagatgcc ctgccctgc gcggggctgc agggcttgta 120
cggcgctggc gccggcctga cgacgatgat gggcgccggc gggctgtacc cctacgcgga 180
gtacctgagg cagccgcagt gcagcccgt ggcggcgggc ccctactacg ccgggtgtgg 240
gcagccgagc gccatgttcc agccgtccg gcaacagtgc tgccagcagc agatgaggat 300
gatggacgtg cagttcgtcg cgcacagct gcagatgatg atgcaacttg agcgtg 356

<210> 12127

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-B2

<400> 12127

cccacgcgtc cgccctggtg atctgaatga ctggtaccgc cacacatcta aaggtgcatg 60
gccgttctca actgctgac atggttgcc tatatctgat tgcactgctg aaggactaaa 120
ggcttcatta ttgttatcaa ggatctctcc caaaattggt ggtgaaccga tggaagctaa 180
tagattttat gatgctgtca gttgtctgat gtcttatatg aatgataatg gcggtttcgc 240
gacatatgaa ctacaagat cttatccctg gttggagctg atcaatcccg ctgagacctt 300

tggggatatt gtgattgatt acccgtatgt tgaatgtaca tcagcagcaa ttcaggccct 360
 gacatcattc aaaaaactat accctgggca ccgcaggaaa gaggtggata actgtatcag 420
 caaagc 426

<210> 12128
 <211> 353
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-B5

<400> 12128

ctggttatta tgaagatggg gcctttggta taagattgga gaatgtactt attggcaagg 60
 acgccaatgc taagtttaat tttggagata aaggttatctt ggcatttgaa catataacat 120
 gggctccata ccagaccaag ctgatagaca ccgggcttct gaccctgtt gagatcgact 180
 ggggtgaacac gtaccactca gactgccgga agatcttgga gcctcatctg aacgagcagg 240
 agaagcaatg gctgatgaaa gctactgagc ccgtagctgc aagaggctga gccttttctg 300
 gaacgttgca tgccaccgag cgccatgctc atcttctgcg tggcatacat ata 353

<210> 12129
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-B6

<400> 12129

cttcttcgtc gacaagcagg ggagttaggt ctcacatgca tgcttcatca cattgttggg 60
 tgcataacga aacacatcgt cgtcggatcg gagatgatga gttccgtcgt cgtggatgct 120
 gctgctacca gcagcagcga gaagaagacg tcgtggccgg aggtggtggg catgtccatc 180
 aaggaggcga cggagactat tctcaaggac atgcccaacg cgtacatcca ggtgctgcct 240
 gttgggtcgc ccgtgacgct ggaccttcgc cccgaccgcg tccgtatctt cgttgacacc 300
 gtcgcatga ctccgacagt tgggtgatac ataccaaatg caataaaca accctacttt 360
 ttattttatg tttccagtta ataataaacc aggccttagc ttcttggttg tccttccttg 420
 gtt 423

<210> 12130
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-B7

<400> 12130

ttccctgggtc taccactct tcctccaact catatgaaac aaccatttct actcaataaa 60
tacatcacta atcaattcgc ctgctcaact atcaatttcc caatcctcta cacttaattt 120
tattccttcc accattaatc tctactacct ccttcaattc ttctgtccc atcctattta 180
tgtctttttc ctctcttttc tttcttttct tttttacctt ttttttctt tttactttcc 240
tttatatatt attttttttt cctctttcat tcttttcttt tttttctct tttttttttt 300
tttttttttt ttttttttct tccttttctt gtttcttttt atatttctat tttttttttt 360
attttttttt tttttttttt tttattttat tatttttttt tttttttttt ttattttttt 420
tttttttttt tttttatttt ttttttatat tttttttatt 460

<210> 12131
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-B8

<400> 12131

agatctcatt gcctcctaag tcctatcgcc caccocgatc accgcgcggg tatcggagca 60
tggcgtctgc ggcggcgggtg gacgccggcg acgcgcgga gccacgggtg cggaacctcc 120
tagaccagga gtccctcaag tgggtcttcg tcggcggcaa gggcggcgta ggcaagacca 180
cctgcagctc catcctttcc gtctcctcgc cgggggtccg ccagtccgtg ctagtcatct 240
ccaccgacct cgcgcacaa ctcagcgatg ccttcagca gcggttcacc aagtttccca 300
ccctcgtccg cggaattcacc aacctctacg ccatggaaat tgacctgaag gtagaaaatg 360
atgatttagc caatgaagga atggagggat tcctttcaga actgacaaat gcgattccag 420
gagtagatg 429

<210> 12132
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-B9

<400> 12132

ggatcctgc tgaagcctag catggtcacc cctggagctg agcacaagga gaaggctggt 60
 ccagaagcca ttgcaaagta cacgctaaca atgctcagaa ggagagtacc tcccgtgtt 120
 cctggaatca tggtcctttc tgggtggacag tccgaggtgg aggcaactct gaacctgaat 180
 gcaatgaacc agtctctgaa cccatggcat gtgtcgttct cctatgcccg ggctctgcag 240
 aactcgggtgc tgaagacatg gcaagggcgc cctgagaacg tggaggcagc gcagaaggcc 300
 ctgctggtgc gcgcaaaggc caactcgtg gccagctcg gtcgctacac tggtagggc 360
 gagagcgatg atgccaagaa aggcattgtc cagaagggt acacctacta atgtg 415

<210> 12133
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-C1

<400> 12133

cccacgcgtc cgcggacgcg tgggcaacta gcaacataga aagcacaata gtgtaccagc 60
 aatggcagcc aaaatatattt gcttcttat gtccttggc ctttctgcaa gtgttgctac 120
 cgcaaccatt ttcccacaat gtcacaagc tcctatagct tcccttcttc cccataacct 180
 ctcaccagcg gtgtcttcag tgtgtgaaaa cccaattgtt caaccctaca ggatccaaca 240
 ggcaatcgca acaggcatct taccattatc acccttggtc ctccaacaac cgtcagccct 300
 attacaagag ttacctttgg tccatttggg ggcacaaaac atcagggcac aacaactaca 360
 acaacttggt ctagcaaacc ttgtgcata ctctcagcaa catcagtttc ttccattcaa 420
 ccaactggc 429

<210> 12134
 <211> 435
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-017-Q1-K1-C10

<400> 12134

cccacgcgtc cgcccacgcg tccgcttatg ctgaaagtca tgatcaagca ttagtcggcg 60
acaagactat tgcgttttgg ttgatggaca aggatatgta tgatttcatt gccctcgata 120
gaccttcaac tcctaccatt gatcgtggga tagcattaca taagatgatt agacttatca 180
caatgggttt aggaggagag ggctatctta atttcatggg aaatgagttt ggacatcctg 240
aatggataga ttttccaaga ggtccgcaaa gacttccaag tggtaagttt attccaggga 300
ataacaacag ttatgacaaa tgtcgtcgaa gatttgacct gngtgatgca tactatctta 360
ggtatcatgg tatgcaagag tttgatcagg caatgcaaca tcttgagcaa aaatatgaat 420
tcattgacatc tgatc 435

<210> 12135
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-C11

<400> 12135

cccgagggtc gcggtacca gttccagatg cagtacggct ccatcgggtg gtcggtcggc 60
gcgacgctcg ggtacgcca ggcgccaag gacaagcgtg tcattcgcgtg catcggcgac 120
ggaagcttcc aggtgacggc gcaggacgtg tccacgatgc tccggtgcgg gcagaagagc 180
atcatcttcc tcattcaaaa cggcggtac accatcgagg tggagatcca cgatggccccg 240
tacaacgtga tcaagaactg ggactacacg ggcttggtca acgcatcca taactccgag 300
ggcaactgct ggaccatgaa ggttcggacg gaagagcagc tcaaggaagc catcgccatg 360
gcg 363

<210> 12136
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-C12

<400> 12136

cgttcttcgg cttcattgtc acaagggttcg agttcgtcac cgtctagtagt gactgtgcga 60

gggaggaaga ggcgaggaga agatgcagat cttcgtgaag accctgacgg ggaagaccat 120

caccctcgag gtggagagca ggcacaccgt cgacaacgtc aaggccaaaa tccaggacaa 180

ggaagggatt cccccagatc aacagcgact gatattcgct ggcaagcagc tggaggatgg 240

acgcacgctg gctgactaca acatccaaaa ggagtcaact cttcatttgg tccttaggct 300

gaggggtgga accatgatca aggtcaaaac tcttactggt atagagatcg attatgactt 360

ttatcttact tgatttattt actgatcatt ggattctttt taatataatg tttgttattt 420

ttcttatttt tatatttttt 440

<210> 12137

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-H2

<400> 12137

cggacgcgtg ggccggattc tcgtcccctt gaggatggag atatcatcaa tattgatggt 60

actgtctacc tcaatggcta ccatggtgat acatctgcta catttctttg cggtgatggt 120

gatgacgaag ctaagaaatt agttaagggtg acaagagaat gtctcgacaa ggctatatcg 180

atttggtcac ctgggggtgga gatcatacaa agtggttagaa ctatacagga tcatgcagac 240

aagtttaagt ttggtgtagt tagacagttt gttggccatg ggggttgcaa agttattcat 300

gctgaacctg ttgagcatta tttcagaaac aatgaagggg gacgtatgat gttgaatcaa 360

acatttacta t 371

<210> 12138

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-H3

<400> 12138

gcaacataga aagcacaata gtgtaccaac aatggcagcc aaaatatttt gcttccttat 60

gctccttggg ctttctgcaa gtgctgctac cgcaaccatt ttcccacaat gtcacaagc 120
 tcctatagct tcctttcttc ccccatacct ctcaccagcg gtgtcttcag tatgtgaaaa 180
 cccaattctt caaccctaca ggatccaaca ggcaatcgca gcaggcatct tacctttatc 240
 acccttggtc ctccaacaac cgtcagccct attacagcag ttacctttgg tgcatttggt 300
 ggcacaaaac atcaaggcac aacaactaca acaacttggt ctaggaaacc ttgctgccta 360
 ctctcagcaa cagcagtttc ttccattcaa ccaactgggt gcattggact ctgctgctta 420
 tttgcaaaa caactacca 439

<210> 12139
 <211> 93
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-H4

<400> 12139

ctacgacca ctcgtccgaa aaaaaaaca catacaaaat aaaaatataa aaaaaaaaaa 60
 aaaaaaaaaa aggaaaagat actaaaatac aat 93

<210> 12140
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-H5

<400> 12140

ccaaccttga ctggtacaaa ggcccaactc ctgcttgagg ctcttgacca gatgaccgag 60
 cccaagaggc cttcagacaa gccctgcgt ctgcccctcc aggatgtgta caagattggt 120
 ggtattggaa ctgtaccggt tggtcgtgtg gagactggtg tcatcaagcc tggatatggt 180
 gtcacctttg gtccaactgg cctgactacc taagtgaagt ctgttttagat gcaccacgag 240
 gcgcttcacg aggtcttcc gggtgacaat gttggcttca actggaagaa cgtgtctgtc 300
 aatgatctca agcgtggggt tgaggccttc aactgcaagg atgaccctga caaggatgct 360
 gtcagctata cttccaggt cataatcatg aaccaacctg ggtcatattg gcaactgcta 420
 tgccc 425

<210> 12141
 <211> 263
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-017-Q1-K1-A11

 <400> 12141
 aaaaaaaaa cataaaaagc acaataatat ataacaagaa aaacaaacaa aatattggga 60
 ggtcacatac tcattgatat gtctgcaaat gctgctactg cgaccatttt accgcaatgc 120
 tcacaagctc ctataacttc atttcttccc caaaaccctt taccagccct atcttaataa 180
 tgtgaaaacc catttctaca accctacatg atccaatatg caatctgacc ttacatctta 240
 cctttatcaa cctttgttct tca 263

<210> 12142
 <211> 397
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-017-Q1-K1-A12

 <400> 12142
 cccacgcgtc cggcgagatc ttcctcaact caaccaacc ttctcgagct cgagcgccgg 60
 taggatctgc ggtgacatcc atggtcaata cagtgatctt ctaaggcttt ttgaatatgg 120
 aggctttcct cctgaagcca attatctatt cttaggtgat tatgttgatc gaggcaaaca 180
 aagtttggag actatatgcc ttcttcttgc ttacaaaatc aagtaccctg agaacttttt 240
 tcttctgagg ggcaatcatg aatgcgcctc aataaacaga atatatggat tctatgatga 300
 atgcaagcgt cgatttaatg tgcggctatg gaaggtcttc acagaatggt ttaacacttt 360
 acctgtggct gctcttatcg atgattaaat attatgt 397

<210> 12143
 <211> 350
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-017-Q1-K1-A3

 <400> 12143

cttgatactc ctgcacacca gaggaccata caccactgcg catcagtgcg aagaggtagc 60
 tacgctatct gccatggctc aagagctcca cgaaacgtcc tcttgctctg ccaccaccac 120
 ctcgtcgtgc accacatcct gctgctcgtc cactgtcaca gactcgtcct cttegcccc 180
 gtcaccggcg gcggccaatg ccgcgcccgc gacacggaag cggcaggcgt tggaggccga 240
 ggccgaggcc gaggcgggcg gtgaggagga ggaggaggag gaggaaggct gtgctggtaa 300
 taaggcgcg cctgccaaga agcgaccgcg gtgcagcgag gggaagcacc 350

<210> 12144
 <211> 426
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-017-Q1-K1-A4

<400> 12144
 cccagcgtcc gcagaaacac accaagctaa gcgcactagc aacaacctaa caacaatggc 60
 tagcaagata ttatccctcc ttgcgttct tgcgcttttt gcgagcgcaa caaatgcgtc 120
 cattattcca caatgctcac ttgctcctag ttccattatt ccacagttcc tcccaccagt 180
 tacttcaatg gccttcgaac acccagctgt gcaagcctat aggctacaac aagcgattgc 240
 ggcgagcgtc ttacaacaac caattgccca attgcaacaa caatccttgg cacatctaac 300
 aatacaaacc atcgcaacgc aacagcaaca acagttccta ccagcactga gccacctagc 360
 catggtgaac cctgtgcct acttgcaaca gcagctgctt gcattcaacc cacttgctct 420
 agcaaa 426

<210> 12145
 <211> 362
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-017-Q1-K1-A6

<400> 12145
 cggacgcgtg ggggcaagtc gtcaggacg gagttcttcc cggcgacgtg gctgaccatg 60
 gtgtcagggt tcgtctcgaa ggcgatgtac tggaagcctt ctccctgcgc cttggtggcg 120
 acgaggtagc cctgggggtac gatgagcagc tgccccgcac ggagcacgtc gtcgaacacc 180

gtgggccggt tgtcgctggc gacctggacc cttgactgc cctgatgcc gtacatggcg 240
 ctgtggggcgt tgaagttcca gaacggcgac atgatggcgt cctggtacag gtctaccgc 300
 accgcgctca tctgtacgag gttgaggacg gtgaacttgt ggctggtgag gcatgtgatc 360
 ct 362

<210> 12146
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-A7

<400> 12146

caacaatcct tggcacatct aaccctacaa accattgcaa cgcaacaaca acaagaacgg 60
 tttctgccat cactgagcca cctagccgtg gtgaaccctg tcacctactt gcaacagcag 120
 ctgcttgcat ccaaccact tgcctctggcg aacgtagctg cataccagca acaacaacag 180
 ctgcaacagt ttatgccagt gctcagtcaa ctagccatgg tgaaccctgc cgtctaccta 240
 caactacttt catctagccc gctcgcggcg ggcaatgcac ctacgtacct acaacaacag 300
 ttgctgcaac aaattgtacc agctctgact cagctagctg tggcaaacc tgcctgctac 360
 ttacaacagt tgcttcatt caaccaactg gctgtgtcaa actttgctgc gtacctacaa 420
 cagcgac 427

<210> 12147
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-A9

<400> 12147

cccacgcgtc cggcagcaga tgccttcaca agcgccacag ttgctgcttc aacagcaggc 60
 agctttgcag tctagttatc agtcttcaca gcaggcgatt tatcagcttc agcaacagct 120
 acaactaatg cagcagcagt ctaacctaaa tcagcaaccc tctgcgcagg ttgggtcatc 180
 tgcagtttct tcaacatgta actggacaga gcatactcc cctgaagggt ttaagtacta 240
 ctacaatagc attactcgtg agagtaagtg ggagaagcct gaagagtatg tgctgtatga 300

gcaacagcag cagaaactgc ttttgcttca acagcaccaa cagaatatcg ctgtacagca 360

actgcagtca ccgccacagg gtcaatcact tccatccatg caaccgattc aacagcttc 419

<210> 12148

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-H11

<400> 12148

cccacgcgtc cgccacgcg tccgccacg cgtccgccca cgcgtccgcc gctcggctcg 60

gggaacgcga tctgttcccc aacctccgca gccgtccac cgtcctccac tccggctgcc 120

gaatcgaccc gccccgatcc agatcaggag ctgagggatg gacgcgaaca ggcgccagag 180

tgggatccag cagttgctgg ctgcggagca ggaggctcag caaattgtga atgccgctag 240

agctgccaaag tcagcgaggc tcaggcaagc aaaagaggag gctgagcggg aaatagccga 300

ataccgtgcc cagatggagg ctgagtttca gaggaagggt gcagagagca gcggcgactc 360

cggtgcaaac gtcaagcgtc tcgaggaaga aacggc 396

<210> 12149

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-F12

<400> 12149

cacaccgttg tcacacaagt gactgtacct ttgcacacat tcggctcacc gtttgcacac 60

tgttggtgca ccggactgtc cggtgtgtta aaactagccg ttggctgcac agcattgtca 120

cactgatgac tcaccgtttg ctactgttg gctcactggt tgacacaaat ttgctcaccg 180

tttgctgaca agactttcct gtgtgtcaga actagccatt gtcttcacat cgttggtca 240

cttttttttc accattttcg caccgttata tcacatTTTT ctcacctttg tttgacatta 300

ctt 303

<210> 12150

<211> 186

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-F6

<400> 12150

gtgacttact ctctcgtatc ttgaactcct caaactcacc tactggctct gaggtgggt 60
ccatccctag cgctcgtccca gtgccaaggc gcagccggcc atcgactcaa tcgcacttga 120
tgacccatga atgaacatta caagtacctt ctcaatctac tgcttatacg cgctcctgat 180
gtagct 186

<210> 12151

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-F9

<400> 12151

gtgggttggc ttctcctccc cctccggttc gggttcgggt tcgtgaggtt ctccgggggt 60
cgggttcgtg ggtgagcgga tcgagatggc ggcgtcggat gttgagtacc gctgcttcgt 120
cggcggcctc gcctgggcca cggacgacca ctccctccac aacgccttca gcacctacgg 180
cgaggctctc gagtccaaga tcatcctcga tcgggagacg cagagggtccc gcggcttcgg 240
cttcgtcacc ttctccacgg aggaggcgat gcggaacgcc atcgaaggca tgaacggcaa 300
ggagctggac ggccgcaaca tcaccgtcaa cgaggccag tcccgcggcg gccgtggaag 360
cggcggcggg gggtagggtg gt 382

<210> 12152

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-G1

<400> 12152

cggacgcgtg ggattaagca gaacctttac ctttttatgt ttatcatgta gcaacaatga 60
gtatttttat ccatttatta ggttgataac ctgagaaatc gctgtgagct tcaagaactt 120
gagcttcaaa aatcagcaaa aaaagtacta gaggccatga cactggttgc cgaagaatct 180

gcaaaatcca aagctgcaaa agaagttata aaatctttaa ccgctcagct caaggatatg 240
gctgagagat taccaccaga ccacggggcc tataatgtca atgagacaaa gcaatcacat 300
aatccgaatg gcattgactc acatgctgct agctactcta gcatgaatgg aattcaccag 360
acacggaatg agttgctcaa tgcttcaatt gcacatagtc tgaactctgg acgaccatcg 420
tcgcattgca atggaa 436

<210> 12153
<211> 425
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-016-Q1-K1-G10
<400> 12153

cggaacgcgtg ggtagcaaca tagaaagcac aatagtgtac caacaatggc agccaaagta 60
tggtgcctcc ttatgctcct tggcttttct gcaagtgtg ctacggcgac cattttcccg 120
caatgctcgc aagctcctat agcttccctt cttccccgt acctctcacc agcgggtgtct 180
tcggtatgtg aaaaccaat tcttcaacc tacaggatcc aacaggcaat cgcagctggc 240
atcttacctt tatcaccctt gttcctccaa caatcatcag ccctattaca acagttacct 300
ttggtgcatt tattggcaca aaacatcagg gcacaacaac tacaacaact tgtgctagca 360
aaccttgctg actactctca gcaacagcag tttcttccat tcaaccaac aagttcattg 420
aactc 425

<210> 12154
<211> 358
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-016-Q1-K1-G11
<400> 12154

cggaccctgg tgggttggt tctcctcct ctccggttcg ggttcggggt cgtgaggttg 60
tcccaggttc ggcttcgtg gtgagcggat cgagatggcg gcgtcagatg ttgagtaccg 120
ctgcttcgtc ggcggcctcg cctgggccac ggacgaccac tccctccaca acgccttcag 180
cacctacggc gaggtcctcg agtccaagat catcctcgat cgggagacgc agaggtcccg 240

cggcttcggc ttcgtcacct tctccacgga ggaggcgatg cggaacgcca tcgaaggcat 300
gaacggcaag gaactggacg gccgcaacat caccgtcaac gaggcccagt cccgctgc 358

<210> 12155
<211> 332
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-016-Q1-K1-G12

<400> 12155

cggacgcgtg ggcggacgcg tgggctgacg cgtgggaaaa aaaaaaaaaa aaaaaaagaa 60
aagaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa attaaaaaaaa aaaaaattaa naaaaaaatt aataaaaaatt aaaaaattta 180
aaataaataa aaaaaaaaaa aataaaataa aaaaatataa aaaaaaana aaattaaaaa 240
aaaattaaat taaaaaaaaa aaaaaaattt aaaaaaatt aaaattataa aaaatttaaa 300
aaaaaaaaaa aaaataaaaa aaataattta tt 332

<210> 12156
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-G3

<400> 12156

cggacgcgtg ggtccggata ggatttgtct cccctccact gcgcctctcc gtttccgggg 60
tggctccggc cgccgccttc ctgtctgctg gcgcgcgtgg ttccattccc cgtgcgcct 120
tctgatccc gaggcctctt cttctcccaa ttccgtcttc ccctgcgcgc tgggaccgct 180
ccgcagctg cagcctcttt ggcgtatgcy ccaacactcg ccgtgcgcca acccttcgac 240
ggaacgcctt cacggagacg gtggttcctt acgtgccggg ctctggcaag tacatagcgc 300
cggactacct cgtgaagaag gtgtcagccg aagatgtgca agatctggtg agggggcaga 360
ggaaggtgcc gtcacatggt gacttctacg cgacctggtg ccggccctgt gttcagatgg 420

<210> 12157
<211> 351

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-016-Q1-K1-H1
 <400> 12157
 gaggacaaca tggtcttcat ctgacacaag tttttttttt ttttttgccg gtgtcgtggc 60
 gcaagttcgg gtcgattttg ctgtgtggca acgtcgcatt gtttttatgc tgttgccttt 120
 ttttgcttgc tggtcgtagt gccactgtgt gttgttgaag tcgctggttt gaaactgcag 180
 tcagttaact gtacgcgtcc tgctttgttt ttgtttgcgc gcgtgtgaaa cagacaaaca 240
 gtctgatgat ttggtgtggt cagggttgta aacaaacttt attagattct cactggatta 300
 tactgcatga ctgtagttga aggaaaagaa gcaggtttga gttgtgaaga t 351

<210> 12158
 <211> 425
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-016-Q1-K1-F11
 <400> 12158
 aaagatgcaa ctgagcttgt agcaaagctt atggcatatc atcatactgc tcaaacggag 60
 gcgcgcaagc aacattattc aagtatgggc cttgacctct ctaagggtat cattcgcaac 120
 aaccttgagt atggcgtgat agagccatcg atgagcaaag taaagatcat tcagtttgcc 180
 acggaggctg ccattactat cctgaggatt gacgacatga tcaagcttac caaggaagaa 240
 gagggtaacg aagagtaagc agcccaccag tagtgggcta gtggactccc atgggatggt 300
 tgccatagca tgtagcactt gttttttcac ttatcgttta cttttgcttg ctgtgagcat 360
 tcgtttgtag gaaaagttag aacggatgtg tatcaatccg tgttgngtga cgatgactca 420
 cgcat 425

<210> 12159
 <211> 275
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-016-Q1-K1-C9

<400> 12159

ggctctgtta gcctaccatg gctgatcacc accggggtgc gacgggaggt ggcgggggct 60
acggcgacct acagcgcggg ggcgcatgc acggcgaggg gcagcatcag cagaagcagg 120
gcgccatgat gacggcgctc aaggccgaga cggtcgagac cttctgcggg tcgatgctgg 180
tgctgtccgg gctgatcctg gccggcaccg tgatcgcgct cacgggtggcc actcccatgc 240
tggtgatctt cagcccgggtg ctggtgccgg ccggc 275

<210> 12160

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-016-Q1-K1-D10

<400> 12160

cgttcgactg ctcatectta ccgacccaag gactgaccat cacccaatta aggagtctgg 60
gtctggggaa catccccacc attgccttct gtgatactga ctctcccatg cggatatgtcg 120
atatcgcat cccagcgaac aacaagggga ggaacagcat tggatgcctg ttctggcttt 180
tggccaggat gggtctgcag atgaggggca ctatcctccc tgggcacaag tgggagggtca 240
tggtggattt gttcttctac agggaccag aggaagcaaa ggagcaggag gaggaagctg 300
ctgttgcccc tgagtttgcc gcaatcactg attaccaagg agctgatcag tggggtggtg 360
accagtggac ctctgatgtg actgcgccgc ctgttgcctc tactgtgnct gattgggggtg 420
ctgctccaac 430

<210> 12161

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-D11

<400> 12161

cccagcgatc gactgacaaa aaaggtaccc ttctaaagtc acgacaaaga aatagagggt 60
gataatcaag ctggtgatat agtgatagca taccgactca ctgatccaat ctagttaaga 120
tcgaattatg atagggatta gcgcaatggt tacatgcact gtcattatcc attgaactgt 180

gatctgtttt tcatgcagaa tactgactca tttatgctta tgetcaacat actacaataa 240
agcgagtctt gctatatcat tgttaaagtc acgttcatat 280

<210> 12162
<211> 261
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-D2

<400> 12162

ggtggatata ttgttgtttc atgaccttgt agctgtcgga caataagagt ggaaatagtg 60
ccgcaaaata gctttgttgt ttctaaaagc gaagaataca ttgccgggta tgtcaacggc 120
ttttactcga ggaccacctt gtcagttata caagtctaag gcagtccttt cactatgttg 180
gtcttgattt atctacgacg tcgatactga ttacagattg ttttgtattg tattttacga 240
caattggatt ttatttgttt c 261

<210> 12163
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-D3

<400> 12163

ccgctcctcc gcgaggggtgt cggtgtcccg caagaccctg tgttgttgtc atcaactgag 60
agagaaacaa ctcatcgat cgatcaagaa gaccggcgag gctctagctc cagaccgaca 120
atgccgtacg cagccacaag gacgtcgccg cagcagcaca gccgcgtggc cagcaacggg 180
agggccgtgg cggcgtgctc agggccacgcg ggcggtgccg acgaggtggc gcggcaccac 240
gaagcacgcg gtggccgcg ggcagtgctg ctctgtgatg gtgcagtcca tcgcggcgcc 300
ggcggacgcg gtgtggctgc tgggtgcgccg cttcgaccag ccgcaggggt acaagcgctt 360
catcaggagc tgccacctgg tggacggcga cggcgctcgag gtgggg 406

<210> 12164
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-D4

<400> 12164

ccctgttcca agtcttacca cctctgtccg taagaggcaa aagacatctc aatctgtgcc 60
tgctttacct gcacctctg caatgcattc acaacagctg gctacaccaa cacagccatc 120
gtctttcaact gctaggaaag cagtaccccc agtccctaaa ggcaaaaaga cgaaaccagg 180
tcagaaggta ccagggtggct ctgcagccaa gcctatgcca tcttcagcag gtcctagtgg 240
aagaggacca cacatgaata ggaattttcc aggtggttct gtcctgaag ctcaagctca 300
gaatgtcgat ccattggttg gtcgtaaagt gatgagccgg tggcctgaag ataatagttt 360
ttatgaagca aatatatctg attataatgc tggaacgggc cttta 405

<210> 12165

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-E1

<400> 12165

ctgggccgct caccgccacc tcttctacca ggacgcgtcg gatctccggg acaagttgga 60
ggccaaccga cacgtggata acctggacgt ggtcgatagg ctcatgacg atgcggaggc 120
tcagtacagg aacttccagc accccgatcc ctacattggt ccatgggcac caggcggcac 180
taaattcaca agaaaccccc ctccacctca agggatcgag atcatctaca attatggcaa 240
ggaggaccag taaacaagag tcttgcaagc ggggggcaga acttccacag ttccaaatca 300
cttctgtttt aatcgagttg ttgtacgaga aataagaatg gaaattactg gactccatcc 360
atgcttctca ttgcttggtt ctgataatca tgtgctcttc atctagtgc tattgaagtc 420
atgtttctct gcataaaaat ggaact 446

<210> 12166

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-E10

<400> 12166

aggaggaaca gcaaaaccaa aagttcgcgc aatatcggtg accgcaacca tgaccagaag 60
gaagagcagt tagtacaatc cttgaggag ttacttcttg caagcaaaca gctcccagat 120
aagtttgatg actactatgt ccttctacgg tatgccatt ttatttattt tctggaaaat 180
ttatgttata tattgtcctt agactgacat aatccacca agtaacaggg gaagagatgt 240
tttattcttc agtacttcta ggatgcctgt ttccttcag ttttgactg aagagatcat 300
gacctcattg ttctctggtc ttgcagctat cttaaa 336

<210> 12167
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-E11

<400> 12167

gcttgattgt tccaggtatt agcagtcgac cggttcctcg gagcacgatg aagtttggtg 60
cggcctacct gcttgctgtc ctgctggga acgccagccc ctccgctgac gatttgactg 120
ccattctgga gtcagttggc tgtgaagttg acaatgaaa gatggaactc ctgctgtccc 180
aactgagcgg taaggacatc accgagctca ttgccgcggg cagggagaag tttgcttcag 240
tcccatgtgg tggcggcggg gtcgctgttg cggcagctgc acctgctgct ggccggagctg 300
ctcctgcagc tgaagcaaag aaagaagaga aggtggaaga gaaggaagaa agcgatgatg 360
atatgggctt cagcctcttc gactaggctg cacagtcac acagtattgt tttgggcatt 420
g 421

<210> 12168
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-E2

<400> 12168

gagagcgcga tacagtcgca tcaactaccc agccgcggag accatgagat acacgttgca 60
ggccctccga gacgtggata ctgtgtcgct aacgcgacgc tcattgacca tggctcacac 120
gctcccatga cctcccagca ccccgcatat ctacacatga acaagagcac caggctgcgc 180

taaccaaca cgacaaccat atacgctca acgagccgtc accatatgca acaatcgcaa 240
 agcggaccag ttgacacaac aactgccagc cctatgcata acgcacacag tggcacataa 300
 catcatggca catcaact 318

<210> 12169
 <211> 175
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-016-Q1-K1-E5
 <400> 12169

ggctgttcg ctccgggtget gctgtttttt cgggtctcgc tgtcttctct gggcctgggc 60
 cgcgggcggc ggntcgcgtg cggtcggcg ttggtgcctt gcgggtggcg gtggtctgcg 120
 gcggcgcgct cctcctggtg ccccgccctg gtgtgcctgt ggctcgcgct cgccg 175

<210> 12170
 <211> 395
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-016-Q1-K1-E9
 <400> 12170

gggagacgca gaggtcccgc ggcttctgct tcgtcacctt ctccacggag gaggcgaggc 60
 ggaacgccat cgagggcatg aacggcaagg agctggacgg ccgcaacatc accgtcaacg 120
 agggccagtc ccgcggcggc cgtggaggcg gcggcggtgg gtacgggtgg ggccgtggag 180
 gcggcggtta cggcggtggc gggcgccgtg atggcggtgg cggctacggc ggtggcggcg 240
 gctacgggtg cggcggcggc tactgtggtg gtggcggcgg ctacagcggg ggcaaccgtg 300
 gcggcggtta ctgcaactcc gacgggaact ggaggaactg atcgggtgggg cccgcgcggc 360
 caaattatcc tggtcgctac cgtgatgttt accct 395

<210> 12171
 <211> 458
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-F1

<400> 12171

gattccccgt cgaccagcg ttcgacacac ctagcgaagc gcactagcaa cgacctaaaca 60
acaatggctt ccaagacatt atccctcctt gcgcttcttg ccctttttgt gagtgcaaca 120
aatgcgttca ttattccaca atgctcactt gtcgcgagtg ccattattcc acagttcctc 180
cctccagtta cttcaatggg cttcgaacac ccagctgtgc aagcctatag gctacaacaa 240
gcgcttgcg cgagcgtctt agaacaacca attgcccaat tacaacaaca atccttgga 300
catctaacca tacaaccat cgcaacgcag cagcaacaag cactgagcca cctagccgtg 360
gtgaacccta tcgcctactt gcaacaacag ctgcttgcac ccaaccact tgctttggca 420
aacgtagctg cataccaaca acaacaacag ttgcaaca 458

<210> 12172

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-F10

<400> 12172

cggcgcgtgg caggttgatc ggtcacgcat gccatgcagc agggccgcag cgtgcgcgtg 60
cttacgcgcg ccgatgccga tgccgcttcg tcgtcgtcgt cgtatttttc ctctcccgt 120
gcccctgcta gtaatgctgc tgtggccacg gcgccgggag acgacgagga tatcgacatc 180
gtcgccattg tcaccggctg ctgcctcgcc tccgaggaag aatctaaggc tgccggcggc 240
ggcgactacc cgcacttgga cctcaacctc atcatggaca tcgtgaggat gaactagata 300
gctacaaatt aaagatatac ctgccagtgc at 332

<210> 12173

<211> 215

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-C6

<400> 12173

tccgggctag acgtacgcgt acgcactctc ttacgatggc atgtgtaatg tcgagaagga 60

tattttgttg caatgcgtgc gggaaaaagg gagtgcgtag aggctcagct gaacctgaat 120
cagatattgt gcaggcttgc agaagctttc tagatcaaca gcagtgcatt aatgtgtggc 180
gatttatcta aactatcaac gagagaaaag acttg 215

<210> 12174
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-A9

<400> 12174

gccggggcgg atccagcgcc ggcccctacc tcgctctcc gctccaccat cgcgggcgac 60
gacgcgcgcg gtaggaccaa gggccgcggc ttccgcgagg accccaactc ctctgcgcc 120
cgcgattcgc gctttggcgc ggggggacgc gccgacctg actcgctcgg cgccccggga 180
cccatccaat caattgaagg atggattgtg ttggctactg gagttcatga agaagctcaa 240
gaagatgacc tccaaaatgc tttccaagaa tttgggcagg tcaaaaacct gcatttgaat 300
ttggaccgtc gtaccggatt tgtcaagggg tacgctttga ttgaatatga aaaagttgaa 360
gaaactcatg ctgcaataaa agaactggat 390

<210> 12175
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-B10

<400> 12175

gtccgcagaa ggatgatgat gacttctggt gaggctgtca agtacaagag ctcatgtac 60
gcgattccag cagatcctta agaaggaagg cccaagtcc ctgttcaagg gtgctggtgc 120
taacattctt cgtgccattg ctggcgctgg tgtgctttct ggctacgacc agctccagat 180
cctcttcttc ggaaagaagt acggctccgg cgggtcttaa atggagaaaa atgatgacga 240
acaagagcag ttcgctcccg gtccagccca gtcaggatct ggtcaagttt ttgcctttca 300
tatcgaagaa attaataatt tatgtaggag aatttttcca acattcgttt tgggcggaga 360
cattgatctc aaaacactcg taactgtcct actaggtggt ggcatgggtc cccaaaacat 420

<210> 12176
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-B11

<400> 12176

agctttgtgc aagcgccact agtgctacgc atattccagg cacttgccac caggattgca 60
ttgtgtacca tgaacccatg catgcagtac tgcgatgacg aacaggggct tgccagcttg 120
atggcgtgtc cgtccctgat gctgcagcaa ctgttggcct taccgcttca gacgatgcca 180
gtgatgatgc cacagatgat gacgcctaac atgatgtcac cattgatgat gccgagcatg 240
atgtcaccaa tggctcttgcc gagcatgatg tcgcaaatga tgatgccaca atgtcactgc 300
gacgccgtct cgcagattat gctgcaacag cagttacat tcatgttcaa cccaatggcc 360
atgacgattc cacccatggt cttacagcaa ccctt 395

<210> 12177
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-B12

<400> 12177

cggacgcgtg ggttgccgtc tcccttttgc gtgagcaaag aaagagagcg agaagagcag 60
tcgccatgtc tggcatcatc cacaagatcg aggagaagct ccacatgggg ggcgaccaca 120
agaataagga ggaggagcac cacaagaagg ccgaggagca ccacaagaag gaggaggggg 180
agcaccacaa gaaggacggc ggggagcaca aggaaggcat cgtggagaag atcaaggaca 240
agatcaccgg cgagcacggc gacaagtccg gcgaccacaa ggaaaagaag gacaagaaaa 300
agaagaagca cggcgagggc cagcaccacg acggcggcca cagtagcagc agcagcgaca 360
gcgactgaga tctggtgtcg cagcacaggt gcaacacatg tatgc 405

<210> 12178
<211> 437
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-B2

<400> 12178

ctcaagcatc agcggcagga gctctgggca gcgtagcac gtggggtacc tagctcgctc 60

tgctagccta ccatggctga tcaccaccgg ggtgacgacg gaggtggcgg gggctacggc 120

gacctccagc gcggggggcgg catgcacggc gagggcagc agcagcagaa gcagggcgcc 180

atgatgacgg cgctcaaggc cgcgacggcc gcgaccttcg gcgggtcgat gctggtgctg 240

tccgggctga tcttgccgg caccgtgac gcgctcacgg tggccacccc cgtgctggtg 300

atcttcagcc cggtgctggt gccggccgcc atcgcgctgg cgctcatggc ggccgggttc 360

gtcaccttcg gcggcctcgg cgtagctgag ctgtccgtgt tctcctggat gtacaagtac 420

ctgacgggca agcacc 437

<210> 12179

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-B7

<400> 12179

cccacgcgtc cgcggacgag tgggtttgca tttaaggact acttcaagag gtggttgagc 60

ttcaagaagg atagggatgg ctattggaag tggtttgctg gcaacctggc ctctggtggt 120

gctgctggtg ctctctcttt gttttttgtg tactccctgg actacgcgag aacaagggtg 180

gctaatacgc ctaaggctgc caagggatga ggtgaaaggc agttcaatgg gcttggcgat 240

gtctaccgca agacactcaa gtctgatggt attgctgggc tataccgtgg atttaacatc 300

tgctgtgttg aaatcattga ttatcggtg cagtactttg ggctctatga ttccatcaag 360

ccagttgtac ttactggcaa cctccaggac aatttctttg ccagtttcgc tctgggttgg 420

ctgatcacta at 432

<210> 12180

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-B9

<400> 12180

cgcacgcgtc cggcaacata gaaagcacia tattgtacca acaatggcag ccaaaatggt 60
tggcctcctt atgtccttg gtctttctgc aagtgtgct accgcgacca ttttcccgca 120
atgtcacaa gctcctatag ctcccttct tccccgtac ctctcaccag cgggtgtctt 180
ggtatgtgaa aaccaattc ttcaacccta taggatcaa caggcaatcg cagctggcat 240
cttaccttta tcaccttgt tctccaaca atcatcagcc ctattacagc agttacctt 300
ggtgcattta ttggcacaaa acatcagggc acaacaacta caacaattg tgctagcaaa 360
ccttgctgcc tactctcagc aacagcagtt tc 392

<210> 12181

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-C1

<400> 12181

cggacgcgtg ggcggacgcg tgggctttct cctactctc agcaacaaca atttctggca 60
ttcaaccaac tgtctacact gaacctgct gcttattgc agcaacaact attaccattc 120
agccagctag ctactgccta ctctcagcaa caacaacttc ttccatttaa ccaattggcc 180
gcactgaacc ccgctgctta ttgacagcag caaatactac taccatttag ccagctagct 240
gcagcaaacc gtgcttcctt cttgacacag caacagttgc tgcctttcta ccagcagttt 300
gcggctaacc ccgcaaccct cttacaacta caacaattgt tgccctttgt ccaacttgct 360
ttgacagacc cagcggcctt ctaccaaaaa cacatcattg gtggtgccct ctttt 415

<210> 12182

<211> 420

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-016-Q1-K1-C11

<400> 12182

gccagttaac ttccaattac tgggggtttcc acgtttaagg ttgctcctat gaaggctgca 60

agtaacttca ataagatcca atgtttctgc tttgaggagc aaacacttct tcctggagaa 120
cagattgaca tgccagtatt cttctatatc gatcctgagt ttgagacaga ccccaaatg 180
gacgngtga acaatatcgt tctttcgtat acattcttca aggtgaacga tagttaggaa 240
acgtgccaac agcattgttg tattaggaaa acaacacttg aacaatccat atgcagatat 300
gctgcggaat agcatctcat gtaacaccaa gagttttttt tggtagttag ctcacgttag 360
tctgtggaga attttgcaaa aaaaaaaaaa aaaaaaaaaa aaactagaaa aaaagggcgg 420

<210> 12183
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-C12

<400> 12183

ggctgacagc gttcacccag tggacgctcc acgtcttggg gttcttccct gtaggctaga 60
acgtacgtcc caagctgtcc ggcattggacc aggttcaagc cggcagtcct tacggcgcca 120
gcacattcga cgccgacagc ttcgaggtgg ccgaacgagg tggagctgga gcacgccttt 180
caccagggga agtacttctc aggcattgcc atacagctca agggttcaac ctgatctaca 240
catataccct tgacggatat catataagac acttattaca gattcgtctt acccatcaat 300
agatcgggtct gatctctcgt ggtgtctgga tgttgtgtgg ctcatgtgaa ctttcatgct 360
acggtgactt tgaatgtaac tggaatttgg aatattcgtt gtttaatgca atttcgatga 420
tttgcataaa t 431

<210> 12184
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-C2

<400> 12184

cccacgcgtc cggagccacc tagccatggt gaaccctgcc gcctacttgc aacagcaggt 60
gcttgcatca aaccacttg ctctggcaaa cgtagttgca aaccagccac aacaacagct 120
gcaacagttt ctgccagcgc tcagtcaact agccatggtg aaccctgccg cctacctaca 180

acagcaacaa ctgctttcat ctagcccgct cgctgtggcc aatgcaccta catacctgca 240
acaacaattg ttgcaacaga ttgtaccagc tctgactcag ctagtgtgtg caaacctgc 300
tgcctacttg caacagctgc ttccattcaa ccaactgact atgtcgaact ctgctgcgta 360
cctacaacag cgacaacagt tacttaatcc actagcagtg gctaaccat tggtc 415

<210> 12185

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-C4

<400> 12185

caaatttact gtattattat ggcattgtgta atgtcgtgaa ggatattttg ttgcaatgct 60
actttagaaa gggagtagct ggaggctcag ctgaacctga atcagatatt gtgcaggctt 120
gcagaagctt tctagatcaa cagcagtgc ttaatgtgtg gcgatttatc taaactatca 180
acgagagaaa agacttgaca gagaacctga agcagctaca gtgcaggaca ctaatttttg 240
ttggtgagaa ttcccagttc catgctgaag ttgtgcacat gactgcaaag cttgataggc 300
gatatagcgc tcttgtggag gtacaagctt gtggctcggg tgtgacagaa aagcaaccac 360
acgcaatgct gataccaatg gagtactttc tcatgggata tggactgtat aggccaagac 420
agataaacta tagccctcgt 440

<210> 12186

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-A8

<400> 12186

cccacgcgtt cgcccacgcg tccgcccacg cgtccgcca cgcggtcgc caggcgtggg 60
cccacgcgtc cgcgacgcg tgggaagaag atagacggat cctcccgggtg aacgaacatg 120
tcgccaagag agtggatcca cgacggagac tacaccccg taatcgtggt catgattttc 180
attgtgctgc tcacagtcgc gttcgtgctt ttctccatt attgctttgg gtaccgtatc 240
gttcagtgc actggatatg actttgaatg ctatgtgatg ctcaagtatc tcatttgcgt 300

tgacagtgtc ctttccaagc gggcacatca tgatataaag aattcaaacc cttatgaggt 360
t 361

<210> 12187
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-H2

<400> 12187

cggacgcgtg gggttttagca accggttcct gaagtctggt gttcaaaagg ctggtaggaa 60
aacgagatac gagagagctg gaaatgagca atttgtgaca gagacaagca aatgggtctt 120
ccatgagagg gggcacctta aggctgttaa tgtaagcac cacaagggtg gggagaccaa 180
tgaaccaggc atgtaccgca ttaacgatga cctggaatac tctgttgaga tctatgaatg 240
gtctggaaca agctggaagc catatgttgc tgatgatgtg caactccagt ttttcatgat 300
gagtccttat gttctgaaaa ctatgtcgaa tgacaacaag ggtttatact caacatcctt 360
caaagttcct gatgtctacg gagttttcca gttcaaagtt gagtaccaga ggctgggata 420
tact 424

<210> 12188
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-H3

<400> 12188

gcacgagctg cgggggaaga gcaaggcgga tctgcaagcg cagcttaagg agtttaaggc 60
ggggctctcc ctgctacgcg taaccaaggt caccggcggg gctccaaca agctctccaa 120
gatcaagggt gtgcgcacct ccacgcgcg cgtgctgacc gtcacctcgc agaagcagaa 180
gtcggcgctg cgtgaggcgt acaagaagaa gaagctgctc ccgctcgacc tccgccccaa 240
gaagaccgc gccatccgca agcgccctac caagcaccag ctcttcttga agaccgagaa 300
ggaaaagaag cgcgagaaag tatttcccat gaagaagtac gctatcaagg cctagatcag 360
tgaaagaaca tttatcctgt c 381

<210> 12189
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-H4

<400> 12189

ccgacgcgtc cgcggaacgcg tggccgtacg cttgcgtggc cgccgcattc gccctaggga 60
ggtggagttc ttaagctcga actcttttta cctgaggaat atccaatggc tgccccaag 120
gttaggtttc tgacaaagat ttatcatccc aacatcgaca agcttggttag gatatgcctc 180
gacatttctca aggacaaatg gagcccagca cttcagattc gaacagttct tttgagtata 240
caggctctac tgagtgcgcc aaatccagac gaccctcttt cggataacat tgcaaagcac 300
tggaagcca atgaagtaga agctgtcgaa acagctaagg agtggactcg cctgtatgcg 360
agcgggtgcat gagaacgcag tgatgttctt gatgtaataa cccatcatac ttcagtcctc 420
atctattgcc atttgcttga ta 442

<210> 12190
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-H5

<400> 12190

gcagttggaa gccaatcttg gcccggtga agtttctgag ttgactggcc cggatgtgat 60
ggaagagaag tgcgcttctg ctgccatttg ttttgtatca ttccttccag acatccttga 120
ttcaaaggca gaaggaagaa acaagtacct tgagctcctg ctctctgtag ctgagaagtt 180
taaaaagagt ccatacagtt ttgtctggac agctgctggc aagcaagcta atctcgagaa 240
ccaggttggt gtgggaggct acggctatcc cgccatggta gctctcaacg tgaagaaagg 300
tgcatacgct cactccgta gtgccttcca gcgcgacgaa atcatcgagt tcgtgaagga 360
ggcaaggcgt ggtggaaagg gaaaccttcc tctgaacgat gcacctacag tagtcgcgtc 420
cgaaccgtgg gacggcaaa 439

<210> 12191
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-H7

<400> 12191

cccacgcgtc cgcccacgcg tccgtttgag cattcagaaa cacaccaagc gaagcgcagt 60
agcaacaacc taacaacaat ggctaccaag atattatccc tccttgcgct tcttgcgctt 120
tttgcgagcg caacaaatgc gtccattatt ccacaatgct cacttgctcc tagttccatt 180
attccacagt tcctcccacc agttacttca atggccttcg aacacccagc tgtgcaagcc 240
tataggctac aacaagcgat tgcggcgagc gtcttacaac aaccaattgc ccaattgcaa 300
caacaatcct tggcacatct aacaatacaa accatcgcaa cgcaacagca acaacagttc 360
ctaccagcac tgagccacct agccatggtg aaccctgtcg cctacttgca acagcagctg 420
cttgcaccca acccaattgc tct 443

<210> 12192
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-H8

<400> 12192

cccacgcgtc cgcccacgcg tccgcccacg cgtccggacc aactagcaac atagaaagca 60
caatagtgtg ccaacaatgg cagccaaaat attttgcttc cttatgctcc ttggtctttc 120
tgcaagtgtg gctaccgcaa ccattttccc acaatgtca caagctccta tagcttcctt 180
tcttccccca tacctctcac cagcgggtgc ttcagtatgt gaaaacccaa ttcttcaacc 240
ctacaggatc caacaggcaa tcgcagcagg catcttacct ttatcacctt tgttcctcca 300
acaaccgtca gccctattac agcagttacc tttggtgcat ttggtggcac aaaacatcaa 360
ggcacaacaa ctacaacaac ttgtgctagg aaaccttggt gcctactctc agcaacagca 420
gtttcttcca ttc 433

<210> 12193
<211> 430

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-015-Q1-K1-H9
 <400> 12193

```

cccacgcgtc cgcccacgcg tccgcgcacc tcccagtgcc cgtggcgacg acgggcgatg   60
gcgagccacc gccctcgtga agcacctcgg gcacggcgac tgccgactga cccggtcagc  120
ttgattaggg aatatggtta tccctccacc agctaggggct cctgcaatca ccaagttcct  180
caagccgtat attttgaaga tgcatttcac aaacagtttc gtgagcgctc aggtcatcca  240
cacaccgaca gccacggtcg catgctctgc aagctctcag gagaaactcc tgaggccaag  300
catggagtcg acacgggatg ttgctgcggc tgcaaagatt ggggaagttgc ttggagagcg  360
ctngctgttc aagggtatcc ctgcagtatc tgtctccatg tcaagagacc agaagtacca  420
tggcaaggtc                                     430

```

<210> 12194
 <211> 366
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-016-Q1-K1-A1
 <400> 12194

```

cccacgcgtc cgggttgggt tctccttccc ctccggttcg ggttcggggt cgtgaggttc   60
tccgggggttc gggttcgtgg gtgagcggat cgagatggcg gcgtcggatg ttgagtaccg  120
ctgcttcgtc ggcggcctcg cctggggccac ggacgaccac tccctccaca acgccttcag  180
cacctacggc gaggtcctcg agtccaagat catcctcgat cgggagacgc agaggtcccg  240
cggcttcggc ttcgtcacct tctccacgga ggaggcgatg cggaacgcca tcgagggcat  300
gaacggcaag gagctggacg gccgcaacat caccgtcaac gagggcccagt cccgctgcgg  360
ccgtgg                                     366

```

<210> 12195
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-A10

<400> 12195

gcgtggattc ggtcgtggtg aaaccgtatc acctcgcgca gaaaaaagcg ccctggagtt 60
acgtctaggg aggagggata tgatccatag tttccttttg gattgttcta ctaccagatg 120
tgcgttttgt ttacagaagt gcggtttttt acatttgcac ttatacgcgt attttgcagt 180
catgtaatgt aattgaaggg gtaagtgatt tttttagttc ctcttgctcc ccctaggaac 240
atgttggacc tctgtaaatt gttcgtttga actttgaaat gtacatcggc tgtgttctgc 300
caaaaaaat aaaaaatata aataatataa ttataatata atttataaat aatttaattt 360
aatattatat ttttttttat tttatatttt tatattttat gatatt 406

<210> 12196

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-A12

<400> 12196

cccacgcgtc cgcccacgcg tccgcgctac tgcattctgc gtcattcaat ccgtgcagtc 60
cgagagcacc ccgtcttccc gctactcccg caagggcgct cgtcgttcc ttctccgggg 120
cgtggcaggc accttctggt agagcgagag cgagagcagc gccgccggca gttcgcgcta 180
tggcgtccca gcaggtgttc cgggctcagc agcagcagca gcagcagttc ccggctcagc 240
agcaggagtc ccagccgggg aaggagcacg cgatggacct ccggcccag gccatcgtcc 300
aggactacaa ggccgccaac aagctcaagg acaaggtggc gtcctgacc ggcggcgact 360
ccggcatcgg gcgcgccgtg tgctgtgct tcgcg 395

<210> 12197

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-A2

<400> 12197

cccacgcgtc cgagaacgtt tccgcacgat tactactgct tactacagg gagcaatggg 60

catcttgctt gtgtacgatg tcacagacga gtcatctttc aataacataa gaaattggat 120
cagaaacatt gagcaacatg cttcggataa cgtgaacaaa attctgggtg ggaataaagc 180
tgatatggat gaaagcaaac gggctgagcc cacttcgaag gggcaagctc tcgctgacga 240
atacgggata aagttttttg aaacgagtgc aaaaacaaac ctgaatgtcg agcaggtttt 300
cttttcata gcaagggaca tcaaacagag actgtcggag accgattcca agcctgaaga 360
tcgaactatc aagatcaagg ctgaagggga agct 394

<210> 12198
<211> 357
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-016-Q1-K1-A3

<400> 12198
atagaatgct aatgcaagca attcttgaat cactgaaaga ctatgaacag tcgaatagaa 60
aggatgtgca atccactgca tctgatcctg catctaaagc caatggtact gtaaaagact 120
gcaatggtgt tgctgcagca gcattggagc aagatgcac ctcatttgat gtcctgaca 180
agcatacgaa tgtccccaac agtggagaaa aagtcagcga agggcaaagt acagattgca 240
acgccggaaa gagcagtgtc tcggtctctg cttctggttc ctcagagccc cttgcaccaa 300
cacagatggt gaatggacaa cctgcttcgg tagactccca gaaagtgacc cagaatg 357

<210> 12199
<211> 216
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-016-Q1-K1-A4

<400> 12199
ctgtgacgac cgatctgtcc aactccatcc ttcggggctg cagcagctta ttcttgagat 60
gcacttcatt gtcgagattg ctgtgtgtgt aacgtttcca tatagaccag ttcagcagct 120
tgtgtccaca atcataacca gagcagttgc agcttttca gcaaggggtg ttgatccaca 180
aagtgttctt cctgaggaca gttggtttgt ctacac 216

<210> 12200

<211> 302
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-016-Q1-K1-A6

 <400> 12200

 aatcaatcaa accgccgccc tccggcctgg cggctgccgc agtcggcctg cggtgtagtg 60
 ttagtctgct gctgatttcc gttgtttatac tgctggtaca tgtgtcgtgt gatagatgtg 120
 tcaactatat atcaatctcg tcgccggcag ctctggcatg tttgagtatg tgttgcttct 180
 ctgtggtgcc ggcgacgatg gctgctagta ctgttaatgt gatcgggtct ccttgaacaa 240
 tggcataaat atgttgcttg tttacttttt cctctaattg caagtaaagt tcatgatttg 300
 cg 302

<210> 12201
 <211> 420
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-016-Q1-K1-A7

 <400> 12201

 agtcctata gtttcctttc ttcccccata cctctcacca gcggtgtctt cagtatggga 60
 aaaccaatt cttcaaccct acaggatcca acaggcaatc gcagcaggca tcttaccttt 120
 atcacccttg ttctccaac aaccgtcagc cctattacag cagttacctt tgggtgcattt 180
 gttggcacia aacatcaagg cacaacaact acaacaactt gtgctaggaa accttgctgc 240
 ctactctcag caacagcagt ttcttccatt caaccaactg gctgcattga actctgctgc 300
 ttatttgcaa caacaactac cattcagtcg gctagctgct gcctaccccc agcaatttct 360
 tccattcaac caactggcag cattgaactc tgctgcttat ttacaacagc atcaactacc 420

<210> 12202
 <211> 456
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-015-Q1-K1-H12

 <400> 12202

cgtccgcacc caactcgccg ccgccgctgc caacgccgcc tgctgccgca gccgccatgg 60
 gggcgtagaa gtatgtgtcg gaactatgga ggaggaagca gtcggacgtg atgcgcttcg 120
 tgcagcgcggt gcgctgctgg gagtacaggc agcagccgtc catcggtccgc ctcaccaggc 180
 ccacccgccc cgacaaggcc cgtcgtctcg gctacaaggc caagcagggg tatgttgtct 240
 accgtgtccg tgtgaagcgt ggtggcagga agaggcctgt gccaagggt attgtctatg 300
 gcaagcccaa gcaccagggt atcacccaac tcaagttcca gaggaacaag aggtctgtcg 360
 ctgaggagag agctggacgt aagcttggtg gactgagggt tcttaactcc tactgggtga 420
 atgaggatag tacctacaag tatttngaga tcatcc 456

<210> 12203
 <211> 295
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-015-Q1-K1-F8
 <400> 12203

cacacgcgta cgaagttgct tattgcctcc acatacataa acttatctgg tcagtcatgc 60
 ctcaactttg agtatctggt ctcacgcaag aagtatgtga tttcaataga tgacaattgc 120
 ctaccagcta acgacactga tgtgtcgact gttgatgtat ctgcacagca catgtccaat 180
 ctgaaatcac gtgctacaca tttctttttc aacacactct atgatccata caggaaagggt 240
 gctgactttg tccgttggtta cacattcagc ctgtgcgagg tggttgagtg catgc 295

<210> 12204
 <211> 439
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-015-Q1-K1-G10
 <400> 12204

caaggttctt ccttggggag acgtttccaa ttccagtata tctttctctt cttccaatgc 60
 attggtggtt gtgctctagc tgctgtcaca gagctgaact ttaatattgt tggatttatg 120
 ggtgccatga tatccaacct tgcatttggt ttccgcaaca tcttctcgaa gaggggcatg 180
 aaggggaagt ccgtcagtgg catgaattac tacgcttgcc tgtcaattat gtccctggtc 240

atactgactc catttgctat agctatggaa ggcctcaaa tgtgggctgc tggttggtcaa 300
aaggctcttg cagaagtigg acccaatgtt gtctgggtga ttgctgcaca gagcgtgttc 360
taccacttat ataaccaggt gtcctacatg tctctcgatc agatttctcc attgacattc 420
agcattggca atacaatga 439

<210> 12205
<211> 437
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-015-Q1-K1-G11
<400> 12205

gtttatcgtg gctgtatctt cggactttac gattctatca agccagttgt cctcactggc 60
agcctccagg acaacttctt tgccagtttt gctctgggtt ggctgatcac caacgggtgct 120
ggtcttgcac cttaccccat tgatactgtc cgcagaagga tgatgatgac ttctgggtgag 180
gctgtcaagt acaagagctc attggacgca ttccagcaga tccttaagaa ggaaggcccc 240
aagtccctgt tcaaggggtg tggtgctaac attcttcgtg ccattgctgg cgctgggtgtg 300
ctttctggct acgaccagct ccagatcctc ttcttcggaa agaagtacgg ctccggcggt 360
gcttaaattg agaaaaatga tgacgaacaa gagcagttcg ctcccgttcc agcccagtca 420
ggatctgggc aagtttt 437

<210> 12206
<211> 377
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-015-Q1-K1-G12
<400> 12206

atctctggga cgccacaaac atcatccaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaggaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaatgacg aaacctata aaaaaaaaaa 240
aatattaaaa acaattataa aaaaataaat atatataaaa atacaccaaa aaaaaaaaaa 300

atatccaata gttaaaaaat cactaatttt aaaaaaaact attaatttaa aaaaaataa 360
 taatctaaat aataatt 377

<210> 12207
 <211> 444
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-015-Q1-K1-G3
 <400> 12207

ctcctctctc gcattccgaa ccttttgagc ctttaattca tccccttgaa cttcaaacgg 60
 gaccaccacc aatcaggcgg ccttggcccc caccgcacca ggaaccggcg ggaaggcgaa 120
 aaaagggcgc gggcggggcg aagggccgcg ggccgaggaa gaaagtcgtg acgaggtccg 180
 tcaaagccgg gctgcagttc cccgtcggcc gcacgggcg gtatctgaag aagggccggt 240
 acgcgcaacg cgtccgcacg ggcgcccccg tctacctggc gcgcgtctc gagtacctgg 300
 cccgcgaggt gctggagcct ggccgcaacg ctgccaagga caacaagaag acccgcatca 360
 tcccgcgcca cgtgctcctg gccatccgca acgacgagga gctcggcaag ctgctgtccg 420
 gcgtcaccat cgcccacggc ggcg 444

<210> 12208
 <211> 438
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-015-Q1-K1-G4
 <400> 12208

cccacgcgtc cgaggaaaaa tatccccaaa ccctagctcc cgatctcgat ggcgaacgct 60
 cgcgtcttct tcgacatgac cgtcggcggc gcccggcg ggcggatcgt gatggagctg 120
 tatgccaacg aggtgcccaa gaccgcggag aacttccgcg cgctgtgcac gggcgagaag 180
 ggcggtgggca agtccgggaa gccgctccac tacaagggtt ccaccttcca ccgcgtcatc 240
 cccgagttca tgtgccaggg cggcgacttc acccgcgga accggcaccg cggcgagtc 300
 atctacggcg agaagttccc cgacgagaag ttcgtgcgca agcacaccgt ccccggtgtg 360
 ctctccatgg ccaacgccg gcccacacc aacggctcct agttctgcat ctgcaccgtc 420

tcgacctctt ggctcgac

438

<210> 12209

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-G6

<400> 12209

cccacgcgtc cgatttaatc tgtgccaaac tattggtggt gcaggatata acatgaaagg 60

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaggaaaa 120

aaaaaaagga ggatcaaggt aaaggaacca aaaaaaggaa cgaaaaaaat aaaagaaaaa 180

agtcacaaaa atgaaatcca taggaccaat gattaaaaac gtagttgaag ggaaaaaaca 240

tgggaaaacc caagtaaaac cccatgtaaa acaggcaaat ttaaacagct ggtaaaatag 300

cgaagaggcc agaaaaaagg cctttaccaa acaggggaaa aacaaaaagg gcaaatggaa 360

cgggcattgg aaaggccttt aaagcgcgga ataagaaggg gaaacgcca gggtaacgcg 420

aacagtggcc agtgctttag cgc 443

<210> 12210

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-G7

<400> 12210

cccacgcgtc cgggagagca cctccacct ggtgctccgt ctcaggggtg gcatgcagat 60

ctttgtgaag aactcactg gcaagacaat cacccttgag gtggagtctt cgataccat 120

tgacaatgtc aaggccaaga tccaggacaa ggagggcatc ccaccggacc agcagcgctt 180

catcttcgcc ggcaagcagc tggaggatgg ccgcaccctg gcggattaca acatccagaa 240

ggagagcact ctccacctgg tgctccgtct caggggtggc atgcagattt ttgtgaagac 300

attgactggc aagactatca ccttgagggt ggagagctct gacaccattg acaatgtgaa 360

ggccaagatc caggacaagg agggcattcc ccagaccaa cagcgtctga tctttgcggg 420

caagcagctg gaggat 436

<210> 12211
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-G8

<400> 12211

cccacgcgtc cgcccacgcg tccgcccacg cgccgcgga cgcggtgggcg agggcaagtt 60
 gcacccgcaa caaccgggtt aacaagccta accggaccct ggccattctg gttccttggc 120
 ggcggcggcg gcggcggcgg ccggccggtg gcggttggct ttgggacccg gcaagccagg 180
 gcccggttc cggggacccg gcggccgaag aggggagagg accatatgaa cgcgagagg 240
 aagaacgtgg ggggcgcgcg aaaagagggc cccggcgaca ctctcgccgg gggagagcgt 300
 attgcgcggg ctacactct gcgggtccta cagcgtatcg aggtgaacga cggcggtgggc 360
 atgaggttcg tgcgttgtt cgccgagatg ttccagaaga tctggtggat c 411

<210> 12212
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-G9

<400> 12212

cggacgcgtg gggaagaacc cgatcgacac catgaggggtg ttgctcgttg ccctcgctgt 60
 ccgggtcttc gctgcgagcg ccacctccac gcatacaagc ggcagctgcg gctgccagcc 120
 accgccgcg gttcatctac cgccgccggt gcattgccca cctccggttc acctgccacc 180
 tctgtgcat ctccaccgc cgtccacct gccgcgcg gtccacctgc caccgccggt 240
 ccatgtgccg ccgccggttc atctgccgc gccaccatgc cactacccta ctcaaccgcc 300
 ccggcctcag cctcatcccc agccacaccc atgccgtgc caacagccgc atccaagccc 360
 gtgccagctg cagggaacct gcggcggttg cagcaccgcg atcctgggcc agtgcggt 417

<210> 12213
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-H10

<400> 12213

cggacgcgtg ggttaatgat gttattaaga tgggttttga caagaatcag ctaattgagt 60
ctgtgcaaaa cagattgcag aatgaggcaa cagttgctta ttatttacta ttggacaata 120
ggcttcgtac aaccagtggg tatcttggat ctgagtttca agaatctatg gactcatctt 180
tgtctcaagt aatcgctgaa acaccaactt cagcaactga acttcgtcag catggggtttt 240
cagaatctcc aggttctggc ttgaggcagc attttgcagc tgaaaggaaa tgggcccttg 300
gtcttcagtc tcgagcacat tcacgagaaa taataagtga agtgcttaaa gctctgcaag 360
aactgaatgt ttactggaaa aagattggac actacaacat gaaatgcaga tggagtcctt 420
gctgccttga gagtatgatg ca 442

<210> 12214

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-F7

<400> 12214

cccactcgtc cgctgacact cgttgctttc actgactact atgataaatg attgtgcggc 60
aatatctgaa ggtatcgaga ctttcaagct acacgttcaa gacctaataa ttcctgatat 120
ataccatatt aatatgtagt attatttcct catggtacca tgacactatt catgcgaaca 180
accaccaatc aaactttcaa ttcatcactt acacaggata aaccttctac tgatctatct 240
aattcttttt cttacagttt cagactataa ctcgatctta tacacaaatt ataaacacag 300
agctatgacg atcactaact catcaatcct ttattctcaa atcattataa ccctgtaata 360
ccaacatgtc tcatatgatc atactataat acttactt 398

<210> 12215

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-015-Q1-K1-E11

<400> 12215

cgtatccctc catcagtcgc tggggccatc cctagcttca tcccaattct tgttcgtgca 60

gctgctggtg gcagcctgag accaggcgcg aggatgctgg cgggtgttcag cggcgaggtg 120

gtggaggtgc cggcggagct ggtggcggcg gggagccgga cgccgtcgcc caagacgaag 180

gcgtccgagc tcgtcgcgcg ctctctgggg accagctgcc ccgccgccgt gtccgtgcgc 240

ctcgccgacc tcggccacct cgcctactcc cagccaacc aggccctcct ccgccaagg 300

tcgttcgcgg cgaaggacga ggtgttctgc ctgttcgagg ggggtgctgga caacctgngg 360

cggctgagcc agcagtacgg gctgtccaag ggcgccaacg aggtgctcct ggtcatcgag 420

gcctacaagg cgc 433

<210> 12216

<211> 423

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-015-Q1-K1-E12

<400> 12216

ctgttattgt gaggcagcgc aagccatggc gccgaaagga tgggtgtctac atgtactggg 60

aagacaatgc tggagtgatt gtgaacccaa agggagagat gaaaggttct gccatcactg 120

gacccatcgg aaaggagtgc gcggatctct ggcccaggat tgctagcgcg gcaaatgcga 180

ttgtctaaag gaagcagttt gtcaaagttc catttaaaat ggggacttga gaagggagtt 240

cttagttagg cgagctttcg attgccctga atatgtttcc ccggctaag cttgtgctgc 300

tggaccgttt cctgatagct ttgctttgat gacatcctcc ccgttatcga taaagttgcg 360

tagcctgaca ttttgcagag ttttaagtagg ctggttttgg tgggagaaat tngagtgatc 420

cat 423

<210> 12217

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-E8

<400> 12217

ggggtcttcag accattagct ttatctactc cagagcgcag aagaacccga tcgacaccat 60
 gaggggtgttg ctggttggcc tcgctctcct ggctctcgct gcgagcgcca cctccacgca 120
 tacaagcggc agctgcggct gccagccacc gccgccggtt catctaccgc cgccggtgca 180
 tctgccacct ccggttcacc tgccacctcc tgtgcatctc ccaccgccgg tccacctgcc 240
 gccgccggtc cacctgccac cgccggtcca tgtgccgccg ccggttcacg tgccgccgcc 300
 accatgccac taccctactc aaccgccccg gcctcagcct catccccagc cacacccatg 360
 cccgtgccaa cagccgcacg caagcccggtg ccagctgcag ggaacctgcg gcgttggcag 420
 caccgccatc ctgggccag 439

<210> 12218
 <211> 420
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-015-Q1-K1-E9
 <400> 12218

ggggtccggaa gcgccggcag ccagcaccag cgagcgtcgt cgtccctgct gatcaccggg 60
 ggcgttcgag ggaaagcgaa gctgacaccg cccctcccg cggggttcta cggcaacggc 120
 ttcgtcttcg tggaggcgga gctgtgcggg gcgacgcgt cgctcgggtg cacggtcgag 180
 ctctgcaga aggccaagcg cggcatgacg gaggagtacg tgaagtcgat ggtggatctg 240
 ttctcgctcg gcggggcgcc gccgtacgcg caggggtgga cgttcgtggt gtccgacata 300
 acgcggatcg gggaggacga gttggacctg ggggtggcgg agcgggtggc cggcggcgtg 360
 cccattgtcg gaaacgacga cgcgaccaag atggttagct accagatgag gtgcaagaac 420

<210> 12219
 <211> 441
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-015-Q1-K1-F10
 <400> 12219

cgctcgctgt gggcaatgca cctacatacc tgcaacaaca attgttgcaa cagattgtgc 60

cagctctgac tcaactagct gtggcaaacc ctgttgcccta cttgcaacaa tttcttccat 120
tcaaccaact gtctacactg aaccctgctg cttatttgca gcaacaacaa ctactacat 180
tcagccagct agctactgcc tactctcagc agcaacaatt tcttccattt aaccaattcg 240
ccgcactgaa cccctctgct tatttccagc agcaaatact actaccattt ggccagctag 300
ctacaacaag ccccgcttcc ttcttgacac aacaacaatt gcttccgttc taccagcagt 360
ttgtggctaa ccncgcaacc cttttacaac tgcaacagtt gctgcccttt gtccaacttg 420
ctttgacaaa cccagcagcc t 441

<210> 12220
<211> 395
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-015-Q1-K1-F11

<400> 12220

gctatagatc actcactcac atacattcca atatgaataa tatgagtgat agagccttgg 60
tggtacttat gttgcttcta tctgtattat tcgttgcgca atgcggtcgt cctcatgatg 120
atgaagttgt tggaaccgca agggggccgcc gagctgcttt tagcctcacc gagaatggat 180
attgtgacac ggagcaccaa aactgtaaag tgggtctactg ctgctcgcat ccacagccaa 240
agcattgcta tgccactttt atgcagtgtc gggccaattg ctacgttcat aaacgcaagt 300
gatccatata tgatgctgtg gttctaaaaa catcatcatt gttagcttaa acaatgtact 360
ttacaatggt tggtaatata ataatatggn gaagt 395

<210> 12221
<211> 431
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-015-Q1-K1-F12

<400> 12221

cactgctcag ctagegtcca cctccacttc ctatcgccat ctctccccct ttcgtcatgc 60
ttctctctcc tctgccatcg cgtccgccgc cccaccgcca tccgcgccga agctgaagtg 120

cggcctccgc tacctgtctc cgcgggcggag tcagagcccc ctgacgccgg cgctgtggaa 180
 gccgaaggtc agggaccctg ggagctccgc gctccgacgc tcttctcgac tgatgacaat 240
 cccaccccgc tccagactgc caccagtctc ctctcaccg gcgccatctc ggtcttcctc 300
 ttccgcgccc tccgcgcgcg cgcccgccgc gccaaaggagc tcagagtgcg gtcgagcggg 360
 ttgaagaagc ccaacaatct caccgaggag gccctggaga ggctgagatt gatgagcgcc 420
 tnaccgatcg a 431

<210> 12222
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-F2

<400> 12222
 cccacgcgtc cgcggaacgc tgggcggcgg cggcgatggg gggcgaccag gagacggaga 60
 agaagaagac cccggtggca ctaatgcca tcgcgaagcc cctcgcagga aagaagctct 120
 gcaagcggac cctcaagctc gtgcgacgag cctctgaggc caagtgcctc aagcgcggag 180
 tcaaagaggt agtcaagagc attcgccgcg ggaacaaagg gttgtgtgtg attgctggaa 240
 atatttctcc tattgatgtg attacacacg ttccaatact atgtgaggaa tctaattgtc 300
 cttacatata tgttccatca aaagaggatc ttgcgaccgc gggaaccact aagaggccaa 360
 cttgttgctg cctggttctg accaaaccaa acaaggtgga gctcagtgc gaggtgaaag 420
 ataaactga 429

<210> 12223
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-F4

<400> 12223
 cccacgcgtc cgcccacgcg tccgcgcaaa ttgcaccaag aaatccatcg agaggccggc 60
 ggcaggggaa ttaatggcgt cgtcgtctag cagcagccac cgccgcctca tctcgcagc 120
 cgccgtcctg ctctccgtgc tcgcggctgc cagcgcacgc gccgggacct cctgcgtgcc 180

ggggtgggcc atccgcaca acccgctccc gagctgccgc tggtagtga ccagccggac 240
 ctgcggcatc gggccgcgcc tcccgtggcc ggagctgaag aggagatgct gccgggagct 300
 ggcggacatc ccggcgctact gccgggtgcac ggcgctgagc atcctcatgg acggcgcgat 360
 cccgccgggc ccggacgcgc agctggaggg ccgcctagag gacctgccgg gctgcccgcg 420
 ggaggtgcag aggggattc 439

<210> 12224
 <211> 440
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-015-Q1-K1-F5
 <400> 12224

cccacgcgtc cgctactata ctatactcta ggaagcaagg acaccaccgc catggcaggc 60
 aagatgcttg cattgttcgc tctcctagct ctttgtgcaa gcgccactag tgcgacgcat 120
 attccagggc acttgccacc agtcatgcc a ttgggtacca tgaacccatg catgcagtac 180
 tgcattgatgc aacaggggct tgccagcttg atggcgtgct cgtccctgat gctgcagcaa 240
 ctgttggcct taccgcttca gacgatgcca gtgatgatgc cacagatgat gacgcctaac 300
 atgatgtcac cattgatgat gccgagcatg atgtcaccaa tggctttgcc gagcatgatg 360
 tcgcaaatga tgatgccaca atgtcactgc gacgccgtct cgcagattat gctgcaacag 420
 cagttaccat tcatgttcaa 440

<210> 12225
 <211> 439
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-015-Q1-K1-F6
 <400> 12225

cccacgcgtc cgcggacgcg tgggggtcaac actgactgct atgataaatg atgaggctgc 60
 aatatctgaa gtgattgaga ctgtcaagca gcaagttaag gatgctaaat ttcttgattt 120
 agaggttatt cgcattgtgt gggatgtgct catggaggct gttcagtggc ctgggaagaa 180
 ccagcagcaa aattccaatg cagcacttag gcaggtgaaa gcttggactg agcttttgaa 240

tgctttttgc acgagtggca gactcgaact ggaacttata cacaaagttc agacacagtg 300
 ctatgaggat gctaagctga tgaagctgtt tccggaaatc ataagaacac tgtatgacca 360
 agatgtccta gctgaagata ctatagtcct ttgggtccgt aaaggttcaa acccgaaggg 420
 caggcaatct tttgtgaaa 439

<210> 12226
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-015-Q1-K1-E10
 <400> 12226

aggtgggtga ggtaaatgtt aaagtggaaa gtgcaggcac acataatgtg cataatagtg 60
 ctttctatgc tgaagagaag ttgctgaaat ctgagttgca agcaatgctg gattgcgacc 120
 cttcatctgc ccgccactgg attgtacgca acacacgaac tgtgaatcgg acggggcagc 180
 caactggcta caggctcgta cctgggtcga actgcctgcc tttggctctg cctgaggcga 240
 aatttctgag gagggctggg ttcttgaagc acaacctctg ggtcactcaa tacaagcgtg 300
 gcgagatgtt ccctggaggg gagtttccca accagaatcc tcgcatccat gagggctctgc 360
 caacatgggt caagaatgat aggcctctgg aggaaaccga cattgttctc tggtagctgt 420
 tcgggctc 428

<210> 12227
 <211> 440
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-015-Q1-K1-C6
 <400> 12227

cgaccgtcgg cctcgtcttc tggtgaaagg gcaagctgca atagctcttg tcatgttggt 60
 cagggagttt tcagttctac tccagaatgg ttgggtccca aaaatcttca ttgttcttct 120
 cagtggagtg gtggcagcat ttacttcta tcgcattgca actggtaacc ccaaagatct 180
 gagcagcaag aatgattcag cgaactaatg cactgggacg agtcagatgg tcagtgggac 240
 gtagaccag aagattatgg tctgttctt tccattttct tcatcggcct tcaattgagg 300

caaagctcgg tcctagcgtc taagatgtct gcgtgatgat acatggattc aaaagaattg 360
 ttgcttatc tggcccaactt cccgcactcc ttgttcctt tactcgtgta atatactaag 420
 atgtcaggcc cgcttaaaca 440

<210> 12228
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-C7

<400> 12228

cctgtatcgg cgctctccac cgccccggcc cttctctcca ccagcgcgcc gccggctggg 60

tccacttcct cgcgccgcac aggaagaccc gaccgcccc cgcgatgagc tggcttggga 120

agctgggcct gagggggctt ggaggcagcc cgcgcgctc ggaggcgctc gcagcgctgg 180

cgcagggggc cgacgaggac cagcccgcgc cggggaacga gttcgcgcaa ttcggcgccg 240

gctgcttctg gggcgtggag ctgcggttcc agcgcgtgcc gggagtcacc cgcacggagg 300

tcggctacag ccagggcaac atccacgac cgacctacga ggacgtctgc accggcacca 360

cataccacaa cgaggtcgtc cgcgtgcagt acgaccggc cgcttgcaag tacgacgacc 420

tactcgacac cttctgggcg c 441

<210> 12229
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-C8

<400> 12229

caaacttctc aagactgtca ctgtccactc caccacctca cttgcgatgc gaacaagagc 60

aaagccctga aatccttctc ccctgcacg cacctgcaga cctgctctct cgcgcgcatc 120

tcccgtgcc ctcactgttt agtggcgacg actgggcgac agtcgcccgc gccgcccgt 180

aggggcccgtg cccttggtct ccatcttcgg gcgcttcgcc caccagatat gagcagctgg 240

caattcgatt ttgaggccat tatttgataa cccgggacaa gtgcactgtt acctgaccat 300

tttagcttgt tcagatggct acacagttgc catgcttcac acagctcagt ccaccgtctt 360

gtagttggat aaaagatgtc gggaactgca aggctacgcc tgatagggtg gccagaagtg 420
cccagacttt ggccactgt 440

<210> 12230
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-D1

<400> 12230

cccacgcgtc cggcttgaag tccaaggatg atgtccgtgg attagtttta gaggtagcgg 60
gggaatatga ttctgaaggt agcatcactg atgatgatat tgatactgag gaacatgaag 120
ataaaaactgt tcgtggagca gaaaatgggtg ctgctgatgg tgataatgct agtaatggag 180

ctgaagttga aagccagagt tctttgccgg ataacaaagt tcgagtgtta tggcttgatg 240
atagtgaaaa aacagaagac attgatgagg tagttgttgt tgatagaagt ttccttcacg 300
gtgatttagt tgcctctgcc tcagatccaa ctggtcagat ggggcttggt ttggatgtca 360
atcttgtggt tgatttgcaa ggtgtgaatg gcgatatgat aaagggtggt tcttccaagg 420
atctgagacg aatcaaggaa ttc 443

<210> 12231
<211> 396
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-015-Q1-K1-D2

<400> 12231

ctcagctgag gctgccgctc gtagaaggat ttccctggaa taacaagggtc ctactggagt 60
tcaatcaaag ccaggtcctt tgcagacagt ttttgaacta cctncagatg aggttggtga 120
ccacagttat tcatgtgcac ttgagagggtc atttctgtat catggacgca tgtatgtctc 180
ttcatggcat atttgctttc attcaaagt cttctcaaag caaatcaagg ttgtgattcc 240
tttgagagat attgacgaga taaggagaag tcagcatgca gttattaatc cagctattac 300
aatatttctt cgaatgggag ctggaggatt tgggtgttcct ccattaggat gtccagatgg 360
aagagtcagg tacatgtttg catcattttg gacaga 396

<210> 12232
 <211> 441
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-015-Q1-K1-D4

 <400> 12232

 gtcactcaac acagcacagg cagctcgaga gagagagaga gagaaagatg tcgtggtggg 60
 ggcaccacca ccacaaccag cgggctcccc cggcgtcggg cccaaccag gtgttcaaga 120
 tcttctgccg cgccaacgag aactactgcc tggcgtccg cgacggcgcc gtcgtgctgg 180
 ccccggtcaa cccaaggac gaccaccagc actggtacaa ggacatgcgc ttcagcaccc 240
 ggggtcaagga cgaggaaggc atgccggcgt tcgcgtcgt caacaaggcc acggggctcg 300
 caatcaagca ctccctcggc cagtcccacc cgggtcaagct cgcgctttc agcccgacc 360
 aggaggacgc gtcggtgctg tggacggaga gcaaggacgt gggcaagggc ttccgctgca 420
 tccgcatggt caacaacacc c 441

<210> 12233
 <211> 289
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-015-Q1-K1-D5

 <400> 12233

 cccacgcgtc cgatgatgcc gagcatgatg tcaccaatgg tcttgccgag catgatggg 60
 caaatgatga tgccacaatg tctactgcgac gccgtctcgc agattatgct gcaacagcag 120
 ttaccattca tgttcaaccc aatggccatg acgattccac ccatgttctt acagcaaccc 180
 tttgttggtg ctgcattcta gatagaaata tttgtgtgt accgaataat gagttgacat 240
 gccatcgcgt gtgactcatt attaacaata aaacaagttt cctcttatt 289

<210> 12234
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3059-015-Q1-K1-D6

<400> 12234

cccacgcgtc cgcccacgcg tccgcaatta gtaaacaacc taaagctcgc atgactggtc 60
atcagaagct tgtaaaccat gtttactttt cccctgatgg acaatgggtg gcaagtgcac 120
cctttgataa atctgtcaag ttgtggaatg gtatcacagg taaatttggt gcagcattca 180
gagggcacgt tgcagatgtc taccagatca gctgggtctgc cgacagtagg cttctactaa 240
gtggaagcaa ggattccact ctaaagatct gggatattcg aacacacaag ttgaaaatgg 300
acttgccggg ccacgcggat gaggtgtaca ccgtggattg gagccctgac ggtgaaaagg 360
tggcgtctgg tggcaaggat cgggtcctca agctatggat gaactgatng attattatat 420
atctatg 427

<210> 12235

<211> 96

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-D8

<400> 12235

cccacgcgtc cgcccacgcg tccgcaaagg atgtttgttt ttaactagtc gtgcgcacgt 60
gattaattca gttcatgttg ttatggttgt ctcccc 96

<210> 12236

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-C5

<400> 12236

cagcaagcca gagatgggtg acgcgcgttg atgtcctgct cgcgagtaga gctggacggc 60
ggatcacatc ggtgatttcg tcaccccgcg tccaccatct ctggcttgct gtcctcatcc 120
cgtcatatac atccttagct cgataattac attgtagcat ttaaccgaac acatgtacct 180
atcaccattg cataagataa ggctcctcct taccgaaata ggaaatgac attttcacac 240
aacgtgattt tcccatgtga agtgaatgta tccataaata gatgggctta cagagtgtta 300

agtggaacgt tctcatgaag cggacatgga taccgaagct gacatgacac tatatcgcat 360
aaagtttact tgtgactttc atgttttagc atgtttatac tactgacata ctttctacta 420
ctccattttct atacta 436

<210> 12237
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-B1

<400> 12237

cccacgcgtc cggccacgcg tccggccacg cgttcggaaa aacagattgt aaatgacagg 60
ggcgtatatt ctttagaatg aactgggcct aaaggtgaat ttattccgat gaccaaacta 120
aaccaaaata tcaaggatat gaaatctatc ctttacggca atggtgaatc agagcctgta 180
actgaagcat gtgtacaatt gacccaagaa ttcttcaggg agaacacttt acggctatta 240
atcatatc tccaaaact aaatttggag gtatgtaatt tgacctgttt ttgcatgtag 300
attgacagta ctactggagt agcttttatt acatacataa tacatacccc tcttggtatc 360
gtttttacac aaaaaaactg atacattcgt atggatgtat ctctacttct gattgttgca 420
gactaggaaa gatgctactc 440

<210> 12238
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-B10

<400> 12238

cccacgcgtc cggcgagatc ttcctcaacc aaccacacct tctcgagctc gaggcgccga 60
tcaagatctg cggtgacatc catggtcaat acagtgatct tctaaggctt tttgaatatg 120
gaggctttcc tctgaagcc aattatctat tcttaggtga ttatgttgat cgaggcaaac 180
aaagtttga gactatatgc cttcttcttg cttacaaaat caagtaccct gagaactttt 240
ttcttctgag gggcaatcat gaatgcgct caataaacag aatatatgga ttctatgatg 300
aatgcaagcg tcgatttaat gtgcggctat ggaaggtctt cacagaatgt tttaacactc 360

tacctgtggc tgctcttatac gatgataaaa tattatgtat gcacggtgga ctctctcctg 420
atctagcaca cttggatgag at 442

<210> 12239
<211> 395
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-015-Q1-K1-B11

<400> 12239

gtggtagggc ggcgccggca tctgttttag ggcgcctgcg gtggcggcgg cgtgtacgga 60
ttcatctgcg gcgggtagcc gccctgcgga ggcggcggtg cgtacggcct gtaagacgcc 120

atcgcgcggc ggctaggggtt cctcggaacc cgagccccag cacacagaca ccgcgccggc 180
ggacactgct cgctccccct tctctctcgt cgccgccacc gcagaagcct ctaccactgc 240
acgtncgagg ccaccgacac atattctacc aaatctatgg gagcgcgagg tagtcggcgt 300
ctcggcgatt tggcgaggag ctggaaggaa ggaaggaagg ggcgatgaga atttcacgac 360
agcttgtgaa tctctgccct agatgccgac gggca 395

<210> 12240
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-B12

<400> 12240

gtgctcgtga ctttgaggac aaggagaagg gcgtcaagat caagaaagag gactgggaca 60
agttgcatgt tcacatagcc tcgtacaaca acttccccac tgctgctggt ttggcctctt 120
cggctgctgg ccttgccctgt ttcgttttca cccttggaag gctgatgaat gtgaaagaag 180
attatggaga actttcttca atagcaaggc agggatctgg gagtgcatgc cgcagtatat 240
atggtggttt tgtgaaatgg tgcattgggag aaaaagatga tggaagtgc agtattgccg 300
tgcagcttgc tgacgaaaca cactggaatg atcttgtaat tattattgca gtggtcagtt 360
caaagcagaa ggaaaccagt agcaccagtg ggatgagaga taatgttgaa acaagtcctc 420
tcttgcatga cagggc 436

<210> 12241
 <211> 444
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-015-Q1-K1-B3

<400> 12241

ccgacgcgtn cgcgcaaaat tgaccagga aatccatcga gaggccgtcg acaggggaag 60
 taagggcgtc gtcgtctagc agcagccacc gccgcctcat cctcgcagcc gccgtcctgc 120
 tctccgtgct cgcggtgccc agcgccagcg ccgggacctc ctgctgcccg ggggtgggcca 180
 tcccgcacaa cccgctcccg agctgccgct ggtacgtgac cagccggacc tgccgcatcg 240
 gggcgcgctt cccgtggccc gagctgaaga ggagatgctg ccgggagctg gcggacatcc 300
 cggcgctactg ccggtgcacg gcgctgagca tcctcatgga cggcgcgatc ccgccgggcc 360
 cggacgcgca gctggagggc cgcctagagg acctgccggg ctgcccgcgg gaggtgcaga 420
 ggggattcgc cgccaccctc gtca 444

<210> 12242
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-B5

<400> 12242

ctctccgctt cccgctccga tcgacctgct cctccccac caccgagccc atggcggagc 60
 agctcaccga cgaccagatc gccgagttca aggaggcctt cagcctcttc gacaaggacg 120
 gggatggttg catcacgacc aaggagctgg gcactgtcat gcgctcgctg gggcaaaatc 180
 ctacagaggc tgagctccag gacatgatca acgaggtcga tgctgatggc aacggcacca 240
 tcgatttccc agagtttctc aaccttatgg ctgcgaagat gaaggacacc gactctgagg 300
 aagagctcaa ggaggccttc cgtgtgtttg acaaggacca gaacggcttc atctcggccg 360
 ccgagctccg ccatgtcatg acaaattctg gtgagaagct aactgatgag gaggtggacg 420
 agatgatccg tgaggctgat g 441

<210> 12243
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-B6

<400> 12243

ctttgttgtg gcaatcctct tagtgctgat ataatcttct aaaaaaaaaa aaaagaaaga 60
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaaaagg gataacacat taaagattac 180
 aaacttacat aagctaacct aaaaaacatg atttaactgt aatgaaact caaaacaata 240
 tcaccatcaa tataacaaaa aaactgagat ttacaaaacg cacagataaa tcacactgaa 300
 tgtcaaaaag aactaatcct attatttcac attatacaca ataacaaaaa cgcttacata 360
 tatcccgaca aaaaaaattg ctaaattaca aatggaaatt acaatctatc ttatcactaa 420
 attt 424

<210> 12244
 <211> 412
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-C4

<400> 12244

agcaacatcc ccagttttcg cagccaccac ctccgaacat gcccactg cacgcacgag 60
 ctacatgct ttacattca caaggatctc ggctactct tccgcagctt ccaccaatgg 120
 gtggaccatc agtgccatca caagtgaacc caccgcttcc gcctatgcct cacccaacgg 180
 caatgcatgg ttacagagt cagatgatgc cccaaatgcc acagcacatg atgggcctaa 240
 atcagatgca tgctggttct gtgctactg gtactgtacc cccaatgggt gggttcccaa 300
 gtgggatggg aaacatccaa ggagcatcag gttcgtctgg cgtacaaaat tttcctatgg 360
 gtggcatgta taatcggcct cagggacaaa tggctccaca agggccaatg ac 412

<210> 12245
 <211> 441
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-A6

<400> 12245

cgggcgccggc cacgtgcgcg ccgtcgtcca agctgcccga cggcgccggc tccggcggag 60
tgccgggggct agcgccctgc tgcagcaggc agcagtcgat gacggcgag gtggcgcgca 120
cgcagaaggt agcggacaag gtcgcgctga gcctgccgag cgacggcagg tacacgtcgg 180
gcgacagcgt cggcgtgacc atcttcagcg gagggccgct gttattggta ccgacagacc 240
gcagagactt caccacgatg ctggccggga cggcgccgct ccacgccgga gccggagccg 300
gtgcccacgg gtactacgat tactacatcg gcattgacgt ggagcatgca caagttggcg 360
gccccggggg ggcgctcgtc gcggcgctgc actacacggt ccattacag gcgctacagc 420
ccgacgtgta cgcgtcgttc g 441

<210> 12246

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-H11

<400> 12246

cttcggcggc gacgagcacc caccagcagt tctgtagaaa tggctgatgg tgaggacatc 60
cagcctcttg tctgcgacaa tggcaccgga atgggtcaagg ctggttttgc tggggacgat 120
gcaccaaggg cggttttccc tagcattgtt ggccgtcctc gccacactgg tgtcatggta 180
gggatgggac agaaggatgc atatgttggc gatgaggcac agtccaagag aggtattctc 240
acgctcaagt acccgattga gcacggtatt gtgagcaact gggatgacat ggagaaaatc 300
tggcatcata ctttctacaa cgagcttcgt gttgcaccag aggagcacc tgtgttgctc 360
actgaggctc ctttgaaccc aaaggccaac agggagaaga tgacccaaat tatgtttgag 420
actttcaatg t 431

<210> 12247

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-H2

<400> 12247

cttggccgac cccttggcca aaagtaaatt cccggaaaaa aggaaaccag aaagaatgta 60
taaaggccga ggattaaaag aaaaggaaaa ggaaaaagaa aaaaagattc aaaaaagaaa 120
aaaccaaaaa gggaaaaagg aagaaagaag atacataaat aaaagggaaa aaaaaaagga 180
aggcatgaaa aaaaagatga acaaagttaa agagaaaaga gagaaggaca agaaaaagga 240
gaagaaaaaa gcaaaagagc agaaaaaaaa agaaggaaca aaaaaaagca aaaaaaaaaa 300
aaaaaagaag gacaaaaaaaa aaaaaaaaaa aaaaaccaa gaccaaaaaa aaaaaccaa 360
agagaaaaaa aggaaggga taagggaagg agaacctt 398

<210> 12248

<211> 423

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-014-Q1-K1-H4

<400> 12248

agccttgccg aacctgcggc gttggcagaa ccccgatcct gggccagtgc gtcgagtgcc 60
tgcagcatca gtgcagcccg acggcgacgc cctactgctc gcctcagtgc cagtcgttgc 120
ggcagcagtg ttgccagcag ctcaggcagg tggagccgca gcaccggtac caggcgatct 180
tcggcttggt cctccagtcc atcctgcagc agcagccgca aagcggccag gtcgcggggc 240
tgttggcggc gcagatagcg cagcaactga cggcgatgtg cggcctgcag cagccgactc 300
catgccccta cgctgctgcc ggcgggtgcc cccactgaag aaactatgtg ctgtagtata 360
gccgctggct agctagctag ttgagtcatt tagcggcgat gattgagtaa taatgtgtca 420
cgc 423

<210> 12249

<211> 451

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-014-Q1-K1-H8

<400> 12249

cactcgttcg agccttgcct cgcgcagcgg tctgggttcgg ttgggtgcc tcttcgccgg 60
tggctctgat gcttttggga agccggagga cgcttagggc ngctttattc cttntttttt 120
tatttttttt tttttttttt tttttttttt tttttttttt tttttttttt ttttattttt 180
tttttttttt tttttttttt ttttttttatt tttttttttt ttttattttt tttttttttt 240
ttttttttat tattttttat ttattatttt tttttttttt tttatatttt tttttttttt 300
ttttttattt tttatttttt ttttatttat tttttttatt gttttttttt tttttatttt 360
tattttattt tttttttttt tttttgtttt tgtttttttt tttttttatt attttttttt 420
tgtttttttt tttgtatttt tttttttttt t 451

<210> 12250

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-H9

<400> 12250

cgcaagtacc agaagagcac ggagctgctg atccgcaagc tgccgttcca ggcctggggg 60
cgtgagatcg cccaggactt caagaccgac ctccgcttcc agagctccgc cgtcgccgcg 120
ctgcaggagg cgtcggaggc ctacctcgtc gggctcttcg aggacaccaa cctctgcgcc 180
attcacgcca agcgcgtcac catcatgccc aaggacatcc agctcgcccg ccgtatccgt 240
ggggagaggg cctaggcgtc gtcccgggtg aggtggaagt agtagtggcc gtttctgtca 300
tactgtctg gctagaaggt gtagagatgt gccgggttct gtagtttggg ttatcgggtca 360
aatcatgatg tagttgggtc taccctgctg taatttaact atgactatgc aatggcaatg 420

<210> 12251

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-A1

<400> 12251

accaattacc caaccgattt cttccaacca accttcccaa cttccacttc aggaccgatc 60

tgcatacat tgtctccct atctccatga gtcacggcat cagcatgcct tgaaaagggc 120
 caggggagct ggaggtcggg ttctcaattc gaagtcagat gacaaggaag agaactccga 180
 ctcaagtcaa aaagagattc agaacggagt tgcgccccaa aaggggtggcc aaccgtcaac 240
 ccctccgtct cccaacgggtg cgtcgtcagc ttatcaggcg cctagtcgtg aatgatgatt 300
 cggaactcac aactgaagag attttagtcc ctgacgctag ttgtggcagc agctttgtac 360
 agtaagtgt agcgggcagc agcgaaatgg tgtcatagaa aaacgttgac gagtcagaca 420
 ggttttggag tct 433

<210> 12252
 <211> 243
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-A10

<400> 12252

gtgtgtccgt gtgtgttctg cagttctgct ggtaagactc gtagcccaag aataagaacc 60
 aggacatggg ccttaataat caccttgaac tgccaaaggg aacgcctgtg tgggtgtgtg 120
 caagcgtgct aaaggccact tagaaaagtc tcattagtat ctgagttgag ttccagttcc 180
 actcttatgt tttcaacagt agacaatgtt cctgttcgtg agttgtctgt gtgattttct 240
 tct 243

<210> 12253
 <211> 268
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-A11

<400> 12253

aaaaaaaaa aacagaaaaa aaaaaaaatt aaataaaaaa aaaaaaaaaa aaaaaaaaaa 60
 gaaaggataa aaaaaaaggg gcggccgttt taaagatccc aatttaactt ccccttcctt 120
 ccaacttaat acctttttta tagggccccc taatttaaatt tcattgcccg ttttttaaaa 180
 acttcttaac tgaaaaaacc ttggctttcc caaattaaat ccctttgaaa aaaatccctt 240
 tttccccagt tggcttaata ccaaaaag 268

<210> 12254
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-A12

<400> 12254

gcggaccgtg ggtggtgaac cctgcctcta ctacaacagc aacaactgat ttatgtaggc 60
 ttcgctgtgg taatgcacct acatacctgc acaacagttg ctgcaacaga ttgtaccagc 120
 tctgactcag ctagctgtgg caaacctgc tgcctacttg caacagctgc ttccattcaa 180
 ccaactgact gtgtcgaact ctgctgcgta cctacaacag cgacaacagt tacttaatcc 240
 actagcgggtg gctaaccat tggctgttgc cttcctacag caacaacaat tgctgccata 300
 caaccagttc tctttgatga accctgcctt gttgtggcag caaccatcg ttggagggtgc 360
 catcttttag attacatatg aaatgtactc gataatgggtg ccctcat 407

<210> 12255
 <211> 446
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-015-Q1-K1-A2

<400> 12255

cccacgcgtc ccgccaggtc tggattccgt ccccggtcgg gcccggccga ccccggtgtg 60
 tggteccggc gtcaagcgtc gcgggctcca ctgagcgtgc gtgtcacggc cgggaggcaa 120
 gggcaggcgg tgggtggcgat ggcgtccgct gacgcgcgct tggcggggat cgctnctcc 180
 atccgcgtca tctccgactt cccaagcca gggatcatgt tccaggacat cacgacgttg 240
 ctgctcgatc ccaaggcgtt ccgtgacacc atcgacctct ttgtcgagcg gtacaaggac 300
 caagggatca ccgtggttgc tgggtgtgaa gctagagggg tcatttttgg tctcctatc 360
 gcttttagcca ttggcgcaaa atttgtgcct ttgaagaagc cgaagaagtt gccaaagcgag 420
 gtgatctncc aagagtattc tttgga 446

<210> 12256
 <211> 441

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-A3

<400> 12256

ctcggcataa ctgcgctgct cgtgatctac tggatgtaca agtacctgac gtgcaagggc 60
cagcctggcg ccaaccagct ggaccacgcc aatgcgaggc tgacgtccaa ggcccgcgac 120
atcgaggatg cagcacagca ccgcatcgac cagccgcagg ggtcttgaca gaagaaccac 180
actagatcgg accgctcgcg cgacctactt gtaccaactgc cggagcggcg gcatatggcc 240
cttaaaggcg gtggctgctg ctacgtacgc tgccgtagag tctcggtcgc cgcgatagct 300
ctagctagtc gtttatgtgt tgtgctctgt gtgtgcatgc tcgtgtctgg tggcatgcag 360
tgcaccgcag tactatatgc tgtatgcgtc tatatttgat cggagaggct gatgtacagc 420
atgctcgata tgtctagttt g 441

<210> 12257
<211> 442
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-015-Q1-K1-A4

<400> 12257

atccccgcagc agccaaaacc tacctagccg ccgcccgcagg cggcccccca tcgccgccga 60
gatgcagatc tttgtgaaga ctctgacggg gaagaccatc actttggagg tggagtcctc 120
ggacaccatt gacaatgtga aggccaagat ccaggacaag gagggcatcc ccccggacca 180
gcagcggctc atcttcgccg gcaagcagct cgaggacggt cgcacctcg ccgactacaa 240
cattcagaag gagtccaccc tccacctggt gtcgccctc cgcgggtggcg ccaagaagcg 300
taagaagaag acgtacacca agcccaagaa gatcaagcac aagcacaaga aggtgaagct 360
ctccgtgctg cagttctata aggtggacga cgccacaggc aaggtgaccc gncnncgcaa 420
ggagtgcgcc aacacagagt gc 442

<210> 12258
<211> 346
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-F4

<400> 12258

gcagatttgg gtgggtttga tggggattct tattacgaca acaatgtgga actagatagt 60
aagctatatc ctgttaatgg gacctactat ctctggtaaa actttacttg caaagacatt 120
atctcgtttt gtgaatgtac catttgtaat tgctgatgca actacattaa cccatgcagg 180
ttatgtatta taggatttat aatctatatt atacaattta ctcacttttt catattttta 240
tgtacaagca tttcatcatt ttatatttta catatactat ttttataata tcataatata 300
agtttgaata ttttaacttta ttataaactt atctttttta tttttt 346

<210> 12259

<211> 291

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-014-Q1-K1-F5

<400> 12259

agcagctcag gcaggtggag ccgcagctcc ggtaccaggc gatcttcggc ttgntcgtcc 60
agtccatcct gcagcagcag ccgcaaagcg gccaggtcgc ggggctgttg gcggcgagca 120
tagcgcagca actgacggcg atgtgcggcc tgcagcagcc gactccatgc ccctacgctg 180
ctgccggcgg tgtccccac tgaagaaact atgtgctgta gtatagccgc tggctagcta 240
gctagttgag tcatttagcg gcgatgattg agtaataatg tgtcacgcat c 291

<210> 12260

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-F6

<400> 12260

ggcggcggct gatgtggagt accgttgctt cgtcggcggg cttgcctggg ccacgagcaa 60
cgagtcgctg gagaatgcct tcgcctccta cggcgagatc ctgcactcca aggtcatcac 120
cgaccgggag acggggaggt cccgcgggctt cggcttcgctt accttctcct ccgagaactc 180

catgctcgac gctatcgaga acatgaacgg caaggagctc gacggccgta acatcacctg 240
 taaccaggcc cagtcctcgtg gcggtggcgg tggcgggcgg ggctacggcg gcggtcggcg 300
 cggcgggcggc gggttatggtg gcgggcgccg tgacggcggt tatggcgcg gtggcgggcta 360
 cggcggtcgg cgcaagggtg gcgggcgcg ctacggaggc ggtggc 406

<210> 12261
 <211> 421
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-014-Q1-K1-F7
 <400> 12261

cccacgcgtc cggaccaact agcaacatag aaagcacaat agtgtaccaa caatggcagc 60
 caaaatattt tgcttgctta tgctccttgg tctttctgca agtgttgcta ccgcaaccat 120
 tttcccacaa tgctcacaag ctcttatagc ttcccttctt ccccatacc tctcaccagc 180
 ggtgtcttca atgtgtgaaa acccaattgt tcaaccctac aggatccaac aggcaatcgc 240
 aacaggcatc ttaccattat cacccttggt cctccaacaa ccgtcagccc tattacagca 300
 gttacctttg gtccatttgg tggcacaaaa catcagggca caacaactac aacaacttgt 360
 gctagcaaac cttgctgcat actctcagca acatcagttt cttccattca accaactggc 420
 t 421

<210> 12262
 <211> 302
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-014-Q1-K1-F8
 <400> 12262

ctcgttctctg ccctcggccc tcccacactc cagcaggcag atcagatata tccatgtcgg 60
 gaccggaagt aatcatcagg aaaggaaagg gttgaaccat gagcgccgtg gctgtttcgt 120
 cgtcgcttaa cccggacgcg ccgctcttca taccgcggc gctgtttcac gtggaggact 180
 tttctccgca gaggtgggac ctcatcacca ccactgtctg ggtccgcgac cactgttccc 240
 gcgagcgcgc ccacatgtac acgatagccc agcacatata cacgggcggg ctctccgacg 300

<210> 12263
 <211> 272
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-G10

<400> 12263

gaggaggaag aagaagctga gtgtgataag acagttaggg aggttcgcga gagcgtgtag 60
 ctggatatga cctcactgca catctaaatg ctgcctgtga ggctgtgacg tgtctgtaga 120
 taattggcctt tattgtctgc tgaatttggg agaacttatg caattctggc gtcagatata 180
 gtggtctata taagcctttt ccatcctgta atatatttgt tttgttgaac tgtatgtgtg 240
 gtactccgta tatgggtttg ttctaaggga gc 272

<210> 12264
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-G11

<400> 12264

ctactatact atactctagg aagcatggac accaccgcca tggcagccaa gatgcgggca 60
 ttgttcgctc tcctagctct ttgtgcaagc gccactagtg cgacgcatat tccagggcac 120
 ttgccaccag tcatgccatt gggtagcatg aacccatgca tgcagtactg catgatgcaa 180
 caggggcttg ccagcttgat ggcgtgtccg tcctgatgc tgcagcaact gttggcctta 240
 ccgcttcaga cgatgccagt gatgatgcca cagatgatga cgctaacaat gatgtcacca 300
 ttgatgatgc cgagcatgat gtcaccaatg gtcttgccga gcatgatgtc gcaaattgat 360
 atgccacaat gtcactgcga cgccgtctcg cagattatg 399

<210> 12265
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-G12

<400> 12265

cacgcgtccg aagagttctt cagcgccttc gaggaggaga tggaggtcaa gcggcggctc 60
gagcaggggc aggcggcgct cgagggcgcc actgaagaca tggacctcat gggccggctc 120
ctcgatgagc tcgacctgct gcagcgccgc tcccaggacg tggacctcga catggtggac 180
gtcaaggtgc agaagctcat gccagagctc gggttcatgc ctgaggacgc cgaccgcctc 240
gtcgctcctt tcagcgggtg gtggaaaatg aggatgtctc taggcaagat acttcttcag 300
gacctgatt tgcttttgct tgatgagcct acgaacctg tcgatttaga taccattgag 360
tggctggaga tgtatctcaa gacgcaggat gtgccgatgg tcattatc tcatgac 417

<210> 12266

<211> 426

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-014-Q1-K1-G4

<400> 12266

tcccgggtgga cgccacgcgt ccggggcctt ctcccgtcac cgtccacgtt accggattca 60
agaggttcca tggagtnccc tgggacccta cggagaggat cgtgcgcggt ctccagccat 120
tcatggagac gagaggggtg cccaagggcc ttgttctcgg gagctgcacc gtccttgagg 180
ccgccgggca gggcgcgctt ggcccgtgt atgaactgct ggagtcgacc gtctccggcc 240
gggaacgtca ggagcgagta attctgctcc attttggcgc caacagtggg tcacataggt 300
ttgctcttga gaatcaagct gttaatgaag ctactttccg ttgccctgat gagctaggat 360
ggaaaccaca gaggacacct atcatatctt cagatggaag catcttacac tcaagacata 420
cttcac 426

<210> 12267

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-G5

<400> 12267

cccacgcgtc cgcccacgcg tccgcccacg cgtccgcgag attctgaatg taatatagta 60
 gaatcatcta taagctgtcg gatatcatgt atctcttaca aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaacaaa aaaaacaaaa acaccaaaca aaaaaaaaaac 180
 aaaaatacaa cataacaaat catatataga tccaccatga cgcaaaccgc ccgcctccct 240
 acaacaacgt ccgcatctaa aacaaccctg tcgctaccca acataccctt acagcacaac 300
 accctggttt caccagatga tgtaacaacc aatagtcctg cacataccga tcttacc 357

<210> 12268
 <211> 417
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-014-Q1-K1-G6

<400> 12268
 gttggcttct cctccccac cggttcgtgt tcaggttctg gttcgtgggc gagagggggg 60
 agatggcggc gtcggacgtt gagtaccgtt gcttcgttgg cggcctcgcc tgggccaccg 120
 acgaccactc cctcaacaac gccttcagca cctacggcga ggtcctcgag tcgaagatca 180
 tcctggatcg ggagacgcag aggtcccgcg gcttcggctt cgtcaccttc tccacggagg 240
 acgcatgacg cagcgccatc gagggcatga acggcaagga gctcgacggc cgcaacatca 300
 ccgttaacga ggcccagtc cgcggcgccc gtggaggcgg cgggtggcga tacggtggcg 360
 ggcgccgtga tggaggcggc tacggcggtg gcggtggagg ctacggcggt ggtcgtg 417

<210> 12269
 <211> 371
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-014-Q1-K1-G7

<400> 12269
 gtggggcaga taccacagaa ctcaactctc atcttcgatg tggagctggt gaacgtagaa 60
 tgaagtgaga agatccacga gaaactgcgg cagtttcaca aattttgcta cgcattcatt 120
 tccttgggca atgctgtttc gtaggcatag gggcatgtta agtggattca tctctgtcgc 180
 tatcatactt tcgaactgag ttccagaagg aaaaaaactg tggactgttg ccatctggga 240

taattcctgg gctgcagcat tcgccatcct tctcccgtt ccttcagggt cattttgaca 300
 ttcttgatgac accctcagaa ccttttgaac tgatgaaatg gttaagggtg agtaaaaaaa 360
 annnaannna a 371

<210> 12270
 <211> 419
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-014-Q1-K1-G8
 <400> 12270

aattacagtc atgtcattct tctgttggc cccggaacc ttacttacag aagggtggaa 60
 agttagtcca gcaggtttgc agtctgctgg ttggaacttg aaacagatat acacaaggtc 120
 attgattgct gcatgctgct tccatgcata ccaacagggtg tcatacatga tctctgccag 180
 ggtatcccca gtcacacatt cagtgggcaa ttgctgcaag cgtgtggtgg tcattgtgac 240
 ctctgttctg ttcttcagga cccctgttct tcccatcaac tcaactcggtc cggggatcgc 300
 tcttgctgga gttttcctat actcgcaatt gaagaggctt aagcccaagc ccaaggctgc 360
 ttgatcatag acctttgcag gtccatccaa tagaactttt gaagttatgc tatgccatt 419

<210> 12271
 <211> 123
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-014-Q1-K1-G9
 <400> 12271

cccacgcgtc cgcaatgatg ggttgttggg agaacactgc tgggtttctt atgaggtgta 60
 gttcaataat aaagtgtttt atctgatgtt tgtggcttcc cagaaataag aaattacatt 120
 tct 123

<210> 12272
 <211> 389
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-014-Q1-K1-H1

<400> 12272

cggaacgctg ggcggacgcg tgggattgag accaacaagc aacatagaaa gcggaatgga 60
ggagcaacaa tagagcaaca atggcgacca agatattttc cctccttatg ctccttgctc 120
tttctacatg tgttgctaac gcgacaattt tccctcaatg ctcacaagct cctatagctt 180
cccttattgc cccatacctt ccatcaatta tagcttcaat atgtgaaaac ccagctcttc 240
aaccatatag gcttcaacaa gcaatcgag catgcaacat acctttatcg cccttggtgt 300
ttcaacaatc gccagcccta tctttggtgc agtcattggt acaaaccatc atggcacaac 360
agctgcagca actcgtgcta cctctgac 389

<210> 12273

<211> 274

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-D6

<400> 12273

cccacgctt cgacctcact aacaccgagc tagcagctcg ctctgtcctg caacaaggcc 60
cgctcgctcc tgctcccagc agctggtcaa ggcggccgta ctggcaggcg cgctgctgat 120
gtggggggcg ggggccggaa cggcttcagc tgccgagagc tgcattgccag gtgaccactt 180
ctgacgagac gtgccttaga tacgcaatac acagaacggc attctccaac atgacgagct 240
gcacctgggt gcgctagatt aacagacgtg cgct 274

<210> 12274

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-D8

<400> 12274

cccaggaaca gagcgaggcg acgccgtgc acctcttctc cggcgaaggg aaatgcgacc 60
gttccagggg atctgatctg gcaggttgtg aggaagaaca actccttcct tgtgaagcag 120
ttcggcaacg gcaatgccaa ggtgcagttc accaaggagc cgaacaacct ctacaacatc 180
cactccttca aacactcggg tttggcgaac aagaagactg tgacgatcca gccagctgca 240

aaggactcgg ctgtggctct ctctactacc aagaccaaga agcagaacgc acctgcgaag 300
 ctcagccaca agtctgtgat ggcgaaggag ttccgcaaga tggccaaggc tgtgaaaaac 360
 caggtttagtg acaactacta caggcctgat ctgaccaagc cagctcttgc taggct 416

<210> 12275
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-E1

<400> 12275

gaaagtggaa tccagtagca acaatagagc aacaatggcg accaagatat tttccctgct 60

gatgctcctt gctctttteta catgtgttgc taacgcgaca attttccctc aatgctcaca 120

agtcctata gcttcccttc tccccccata ccttccatca attatagctt caatatgtga 180

aaaccagct cttcaaccat ataggcttca acaagcaatc gcagcaagca acataccttt 240

atcgcccttg ttgtttcaac aatcgccagc cctatctttg gtgcagtcac tggtaaaaac 300

catcagggca caacagctgc agcaactcgt gctacctctg atcaaccaag tagctctggc 360

aaacctttct ccctactctc agcaacaaca atttcttcca ttcaaccaac tgtctacact 420

gaa 423

<210> 12276
 <211> 183
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-E11

<400> 12276

cccactcaac acacccatcc tccactacta ccacactttt tccaacctac taaccactca 60

tcacccaatg atactattat aacttctgta aacatcccca cctcactctc catcaactca 120

acaaatacat ctactattcc acactactca ctccccacca ataacactat accacatatc 180

ctc 183

<210> 12277
 <211> 425

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-014-Q1-K1-E12

 <400> 12277

 ggatgttga cttaatcaga ttgcactatt tgaaggaaaa gttgctggtg gaaatgggta 60
 acaagttctt agccgagaca tatatagact cggacaactt tttgactttt tcaggatggt 120
 atctttctac gtgacaactg ttggattcta cttctgtact atgctaaccg tgctgaccgt 180
 gtacatattt ctctatggga aaatgtatct ggccttatct ggtgttggag aatcaattca 240
 aaatagagcg gatatactgc ataacgccac cttgaatgct gctctgaaca ctcaatttct 300
 tttgcacatt ggtgtattta ctgctgttcc catgattctt ggtttcatcc ttgaatcagg 360

 tgttttaacg gcttttgctc agtttattac aatgcagttc caaatgtgct ctgtattttt 420
 cactt 425

<210> 12278
 <211> 378
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-014-Q1-K1-E2

 <400> 12278

 gacgatggtg ctctcgagc cctgaatac tttaacggcc ctgtcaatgc tcatgctaan 60
 ggancctacc tncgacataa ggctgggcag cctcagcata ccgaaaggca acgggatcgc 120
 catacccgtc cegttcctcc accgagacag agaggtctgg ggcgacaacg ccaatgactt 180
 cgatccggtg aggtttcaga acgggggtcac gaacgcggcc aagaccccg c aggtctttct 240
 gtcgttctcg atcggggccga gggcatgcat cggccagaac ttcgcgatgc tggaagcgaa 300
 gtcggtgatg gccatgatca tgaagaagtt ctcttcacg ctttccttga gctacgtgca 360
 cgctcctgag gatcatat 378

<210> 12279
 <211> 352
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-E3

<400> 12279

cggacgcgtg ggcggacgcg tgggaccaac tggcatcatt gaactctcct gcttattgac 60
ggcagcaaca actactacca ttcagccagc tagctggtgt gagccctgct gccttcttga 120
cacaacaaca gttattgccg ttctacctgc acgctgcgcc taacgctggc accctcttac 180
aactgcaaca attgctgcc a ttcaaccaac ttgctttgac aaaccagca gcgttctacc 240
aacaacccat cattggtggt gccctctttt agatttctta tgagttatag ttcaataata 300
aagttttttg tctgatgttt gtggcttccc agaaataata aagtccattt ct 352

<210> 12280

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-E6

<400> 12280

gttaattact ctggaaatgg ccacatgcag agccccaaca tcaacagcaa cactgatgct 60
ccggttaatc cgaacataga agctgtcaaa tggttcttca aggaacggct tgatgttaat 120
ccaaaagagg agagcaggac attcttgaca tttgtcatcc ctcacacaa agaaccactt 180
ctgacgagat tctttggaga gttgcaagac aggggaaggg agtttggaat atcagacatt 240
caactcggtc tgacaacact tgaagaggtg ttctgaaca ttgcaaagca ggcagagctg 300
gagacctcta ctgctgaagg taccctggtg actctcaacc tgtcatcagg aacaacaatt 360
cagattccca aggaggctcg tttcgttggt attcctggaa ctg 403

<210> 12281

<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-F1

<400> 12281

accgcactct acaccgtaac acctctcatc taaccaccgc agccctacta acaaagaaag 60
acgcttatca cgatgtccag tgcacctata ctcgttcaac accacctttt ccaacaacat 120

ttgcaccatc	acaatacacc	tattatcact	tatccttaag	agctactcac	ttcacactac	180
tttcaccacc	cactttccat	aatcaactga	ctgtttctaa	ctctactgca	tacctacaac	240
atcgaccaca	aacacttaat	ccact				265

<210> 12282
 <211> 516
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-014-Q1-K1-F10

 <400> 12282

cggttccgga	atttcccggg	tgcgacgcca	ctgcgtctcc	gttgcttacc	cagagggttaa	60
tgggggtcttg	agntagtatt	nnntccaatt	gcatttatta	ttttatttaa	atgtccacac	120
tcctaagtga	tctgctgttt	attnnnngtc	aattaagggt	cacttagtca	anngcttgca	180
gccnnttaaa	gggaccctcg	atgcaaggct	ttanngggag	atnccgaagn	nctatttggn	240
natcttgtaa	ttgatcggga	agcttcccat	ctgaatcatc	gaaatttntg	tactcatttt	300
gcaggatgtn	nctttaatct	ccttccaaat	tntgaactgt	aatgagccc	taattaaagc	360
cttttgcaagt	gaaaacataa	cgaccatgat	gtttggtgaa	tataacctgt	ctttctctga	420
tcccgggaagc	gtcatttgcg	ccttctnaca	atttaatcan	acaattaaga	tgcttaaaca	480
aaggagcatc	gagaaaggcc	gaggggattc	gaaacc			516

<210> 12283
 <211> 204
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-014-Q1-K1-F12

 <400> 12283

tccaatccca	atccatctcc	gggcattccg	gcgcgtttag	ttcattaggt	cttctttctc	60
atcgggggct	agtgttattt	tacctttctt	cttttctgtc	tattgggttaa	ttgggtcccc	120
ctgaatgttt	ttttgtttgt	atagagagag	aaagagaaaa	gaagggttaga	agagaagcaa	180
gagaaataga	tgaatcaaag	tggt				204

<210> 12284
 <211> 405
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-014-Q1-K1-D3

<400> 12284

gcgcaagttg ttgtagttgt tgtgctatca aaccttgctg cctactctca gcaacancgg 60
 tttcttccat tcaaccaagt agctgcattg aactctgctg cttatttgca acaacaacta 120
 ccattcagcc agctagctgc tgccatcccc caacaatttc ttccattcaa ccaactggca 180
 tcattgaact ctctgctta ttacagcag caacaactac taccattcag ccagctagct 240
 ggtgtgagcc ctgctgcctt cttgacacaa caacagttat tgccgttcta cctgcacgct 300
 gcgcctaacg ctggcacccct cttacaactg caacaattgc tgccattcaa ccaacttgct 360
 ttgacaaacc cagcagcgtt ctaccaacaa cccatcattg gtggt 405

<210> 12285
 <211> 399
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-014-Q1-K1-B7

<400> 12285

gtttcttggg gctgcgcaaa aaactaacag aataccatac atgtacatat acaanagtnc 60
 aagcttctga caacagagca cagcacacaa caatacaata cactggagtt cttgaaggtaa 120
 ccattacaat caggcagcta atcggttggtg cagtttcaac acatatatag ttccgcatac 180
 cgcaggaaac tatatgcatg catcgacatt atttgggggg catcggaccg gagcatctca 240
 tatccatcca gaccgaccgt gctcgtcagg gtccgccatg tctcgttca gctggtccat 300
 gtaggcctgc tgatggtacc gtgtctgcag ggaaggatca ttgccatggt gctgaaggag 360
 tccctggaac ggaccaagaa cactactccc actgtgccc 399

<210> 12286
 <211> 338
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-014-Q1-K1-B8

<400> 12286

gaatggccga gataacccta gagccgagtg atcttatggc gcaaacaaac aaaaaagtan 60
tgccaaagtt cactgaaatc ttccccgtgg aggacgcgaa ctacccttac agcgccttca 120
tcgcgtcggg cccgaaagac gtgatcaaac actgcaccga ccataaaggg atcttcagc 180
ccgtgctgcc accggagaag aagggtcccg agctatgggt ctacacagag ctcaaaacta 240
ggaccagctc catcacgctc gccatacgca tggacaacct gtacctcgtg ggcttcagga 300
ccccgggcgg agtgtggtgg cagctcaatg gcgactgg 338

<210> 12287

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-C1

<400> 12287

atgttcatac ctttcgggct tctttgtctc caaacttcaa atcatattgc agaaatcgtc 60
tgaccgctat gatgttgact gtgtgcctga tgcttacaga ggaaataggc aagcttatat 120
taaggacagc tcgatttcta agaactgtac tctggaagcg aagggttctgg aatacatgag 180
agcaccaatt tatgtttatt atgaacttga gaatttctat cagaatcacc gcaggatatgt 240
caaaagtaga agcgataaac agctgcgttt tggggcaaaa tacacggccg actcgtgcag 300
tcctgttgag tgggataata atggttcccc aattgttccc tgcggcttga ttgcctggag 360
cttattcaat gatacatatg gttttactcg tgggtccaag gaaataaagg tcaaca 416

<210> 12288

<211> 384

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-014-Q1-K1-C12

<400> 12288

cccacgccta ctcgtacgcg tgtagtcaag atcctctaca gctagatctg ccacaccagg 60

atgtacttct gggatgccaa agggcatact cccgtgtacc ctcagatctt tggccaccaa 120
gctaaacgta ttataaacag tggtgtagat ggtgatactg acctaacgta caacgaccat 180
gtcctacctg tggttactgt gcagtgcatt gagacgatac aactgcaag ctggctatat 240
atcaacatgt gtgcaccgct gangatcaac accgactcgt actgagatga tcgccgatag 300
caatacccag gttctaaatc aactacaagc ctatatacca ctttggaac acttacacct 360
tgatcgagta caccgacatg cata 384

<210> 12289
<211> 259
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-014-Q1-K1-C3

<400> 12289
gggtgggttgg cttctcctcc cctcctttt cgggttcggg ttcgtgaggt tctccgnagt 60
tacttttcaa aaatgagcgg atcgagatag catcatacaa tggtgagtac cgctgcttct 120
tcagcagcct cgctgtgcc acagactacc actcaattca caactccttc agcacctaca 180
gcaaggtcct ctagtccaaa atcattctag atcggcaaac acaaaaatcc cacgtcttct 240
acttctttac cttcttcac 259

<210> 12290
<211> 312
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-C4

<400> 12290
ccgtccatga ggaaattctt gctggctttg ggcttcagca aggggcagcc ccacttctgc 60
tagttcatct tcaaagggat cgacgcccgg ttcctgagcg aagccctggg cgtcagcatg 120
cacgtcgccg agaagctgca gagccggcgt gaccagcgag gcgagatcgt ccgctgggag 180
ccggagcacg gctttcacca gctgaatcog tcgccgtcgt cgctgctggt ttcgttccca 240
tcgtcacaag tccagtacca aacttgccag ctcgacgtcg acaggcacia cttctgcgcc 300

atggaggtga tg

312

<210> 12291
<211> 420
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-014-Q1-K1-C5

<400> 12291

ctttcaagat ggacgacaag ttcaaggaga tcgttgtgga ccaggtcggg gatggcggta 60

ccagctacga ggacttcaca aacagcctcc ccgagaatga ctgccgatac gcgatctatg 120

atttcgactt tgtcactgca gaagatgtcc agaagagcag gatcttctat atcctatggt 180

ccccatcctc cgccaagggtg aagagcaaga tgctttatgc aagctcaaac caaaaattca 240

agagtgggct caatggcatt caggtggaac tgcaggctac tgatgcaagt gaaatcagcc 300

ttgatgagat caaggatcgg gctcgttagg catcatgac atgcatcatg gactcggcct 360

actactgtgg atttgtatgc cattatagac tnggtgctgt gaaagactgc ttgatgattt 420

<210> 12292
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-C6

<400> 12292

cccacgcgtc cgcccacgcg tccgcccacg cgtccgcgga cgcgtggggg cgtgcagatt 60

atggcaccta atgctggtga gatcatccac gaagctgtcg tcgccttgca gtatggagca 120

tccagtgagg acgttgctcg aacatgccac gcacacccta ccgtgagtga agccctcaag 180

gaggcttgct tgcaaaccct cgataaagca atccacatat aatttctcat tttttgtgtc 240

caaactccaa agtttgtggt aattttgggt ctgttgga aaaggcccct gattgtcatt 300

ttgtttttgt cggccatact gtgaattgac cttttgagtt gtccatctta gcgggggttt 360

gtgcttgctt ggcttgggtt atccatccaa ataataacct gatactat 408

<210> 12293
<211> 411

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-014-Q1-K1-C8

<400> 12293
 cccacgcgtc cgccacgcg tccgcatagt catgcgtcaa gtaatactct ggatnnggtn 60
 aatgggttttg atggtacaga tacacattac tttcacagtg gtccacgtgg ccatcactgg 120
 atgtgggatt ctgcctatt taactatggg aactgggaag ttttaagatt tcttctctcc 180
 aatgctagat ggtggctcga ggaatataag tttgatgggt tccgttttga tgggtgtgacc 240
 tccatgatgt acactcatca cggattacaa gtaacattta cggggaactt caatgagtat 300
 tttggctttg ccaccgatgt agatgcagtg gtttacttga tgctggtaaa tgatctaatt 360

catggacttt atcctgaggc tgtaaccatt ggtgaagatg ttagtggaat g 411

<210> 12294
 <211> 83
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-014-Q1-K1-C9

<400> 12294
 cccacgcgtc cgccacgcg tccgcccacg cgtccgccca cgcgtccggg aacagtggaa 60
 aatttatgca agcattttctg ctc 83

<210> 12295
 <211> 410
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-014-Q1-K1-D1

<400> 12295
 aagaaataga agaggggaat gcgtctggac taattgctgt ggctcccagag tcagaaggga 60
 tgatgatgcc ccatttatag atggaaacca agcagagggt ggtgcactgt gggatatttt 120
 tcgacgggaa gatgtgagca aactgcatga ttatctaata aagcatgctg atgagtttag 180
 acattgcaac tttgagccag tgaagcaggt tactcatcct atacatgac agtggttttta 240

tctaacaatt gagcacaaga gaaagcttaa ggaagaatat ggagtcgagc cttggacatt 300
tgaacagaag ctaggtgagg cagtatttat cccggcagga tgtccccacc aggttagaaa 360
tttgaagtct tgcataaagg ttgcactaga ttttgtttct ccggaaaatg 410

<210> 12296
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-D11

<400> 12296

caattgccca attacaacaa caatccttgg cacatctaac catacaaacc atcgggacgc 60
aacagcaaca acaatttcta ccagcactaa gccaaactagc tgtggtgaac cctgtcgcct 120

acttgcaaca gcagttgctt gcatccaacc cacttgctct ggcaaacata gttgcatacc 180
aacaacaaca acaattgcaa cagtttctac cagcgctcag tcaactagcc atggtgaacc 240
ctgccgccta cctacaacag caacaactga tttcatctag ccctctcgtg gtgggtaatg 300
cacctacata cctgcaacaa cagttgctgc aacagattgt accagctctg actcagctag 360
ctgtggcaaa ccctgctgcc tacttgcaac agct 394

<210> 12297
<211> 272
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-D12

<400> 12297

aaggaccttc ggcgcccgtt caggatccac atcttcccga ggcagttctt ggtgggcgtc 60
ttcctcttcg gaccacctcc aaggctcttg gtgtagcttg ccactctcac caatcaagtt 120
ttcatgtctg atctcgacat tcagatccca actgccttcg atcccttcgc tgaggccaat 180
gctggggact ctggtgcggc agcagggta aaggactacg tacacgtgcg catccagcag 240
cgtaatggtc gcaagagcct gaccaccgtc ca 272

<210> 12298
<211> 417
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-B5

<400> 12298

atgtctctgg tgtttctttg ttttccaatt gcaaagtctc tcattgcaaa gatcaaggat 60
gtgagtcctt tagttgatga gcttgttctg ctgctgcttt attgtgcata tacagtgggt 120
ctctacctgc acctcgctgt gtcggttgtg catgaaatca aggatgccct tggaatctat 180
tgcttcagga taactagaaa ggaggcttga actttgtagt gaagatatat tattattact 240
tcacaagtgc tagcgaggag caacacagtt cgtcaccgtg cacgctggga gtgtgtgtgc 300
ccctggaaat gccacagcca tctgattgta ttgcgcagtt atcttgggtca tataacaata 360
tagcagtgtg atgtacactg tagtaggggtc gttagaagat atactgtgat aaacttg 417

<210> 12299

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-013-Q1-K1-H6

<400> 12299

cccacgcgtc cggggaggtg gagaaaaggt agttagtaaa gagattaagc cagcaagaga 60
tgagggtgatc gacaaggacc tattgcaggc cttcaggtagc tttagacataa atggagcagg 120
atatctcaag gttgatgatt taaaatgtat tcttcacaac atggggaagt ttttatcaaa 180
caaggacctg aaagacttgg ttcaaattgc tcttggtgag agcaattctg caagggacaa 240
tcgcataatc tatcctaagc ttgtgaagat tgttgacctg taatctggca ctgcttgccc 300
cgcgtcagtc cccttgaagt taaccatgct atgatcgttg agaagtcaat tatgagaaac 360
tanttttgtt acttattaat gggttcactg ccatttttgt ggctaccctg ttctacgatt 420
atgctaca 428

<210> 12300

<211> 160

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-H7

<400> 12300

tctttactat ctttcctaatt tctatctaatt ccagtcact atttatttct catataaatc 60
atctactaca ccataataaa ttcttttata tctcttaaaa attatttatt tcataatctta 120
tactttttac ttacctttat ataattaatt taattttattc 160

<210> 12301

<211> 223

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-H8

<400> 12301

gccgggtgctg atgcatctcg gacttctcga gtgggtgttg cgtcagacag ccagccgctg 60
tggggctagt gttccaacat ttgtcagcct gcttgccgca ggaagggggg tcaactgactc 120
aagagaaggc cctggtcata ggctgctgca ttatgaattt ctgatgatgt cttatgtctg 180
tactctgaat caactatgta tgagatctca tctcctttct cct 223

<210> 12302

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-H9

<400> 12302

cccacgcgtc cgcccacgcg tccgcccacg cgtccgggtgc gatatggagt aaaatccgtg 60
gagaattagg tggagaagaa ggtaagtgc aacgctcctt aggtgttcga tggtagccta 120
gttgaaaatc gtgcgaagcg aagggtgtgg atcaaaacaa ctcacaagac gatgtcggcc 180
gatgatcctg aagctagatg aactaagcgg gtgtcagaat aaaagttgat cgtcaagtgg 240
ccatcatcta acaacactaa catagtgtta tcccagggtta taattttgtt ctgttggtga 300
tgggtgctaag tgccgggtggg ctccggcctt ttatataaac tgcgatccat ttccgagctt 360
cgaggaatca acagtcaagc ttccggcgacc aagagatcga actcttcgag ttctacga 418

<210> 12303

<211> 428

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-014-Q1-K1-A10

 <400> 12303

 cgcaactggta tgcctctatg ccggatttca ctccaatcac ctgccggagc agctcgaggg 60
 gaggctgacg atatagaaaa cgaagcaaac gagcttatcc gcatcaagaa ctatctctat 120
 ggcaagctcg cggggcacac aggccattct gtcgagaaga tccatgagga cctgtctagg 180
 gtgaagcgct tcgacgccga aggggctctc gagtacggga tcatcgaccg tattgtcagg 240
 ccgtctagga tcaagaaaga gggctccact gctcaaagga gggacatgcg gaatctggga 300
 cttggctaata aatagacgat cgaaatcctg ttgtatcaga attttttgtg caaaggatgc 360

 gcttattatg ggagagcgag cgatgcactg ttccaagctc tacgcccgcg taggtgtttt 420
 gttgtgtc 428

<210> 12304
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-014-Q1-K1-A12

 <400> 12304

 cccacgcgtc cggtttgttc caaaattggt gctcattttt tggaatctag aggtatgggg 60
 ggagaggctc ttgagatagc cacggatgct gactacaagt ttgacctagc tgtgcagctt 120
 ggaaaattag atgttgcaaa ggctatcgtc atagaagcac agagtgaatc taaatggaag 180
 cagttgggtg aactcgccat gtccacaggc aagctagaga tggcggagga atgccttctt 240
 caagcgaagg atttaagtgg cttgttgcta ttgtactcat ctcttgaga tgctgaagga 300
 attgaaaagc ttgcttcttt ggcaaaagaa catggaaaaa acaatgttgc tttcctctgc 360
 cttttcatgc ttggtaaaat ggaaagattg catacagggtg cttgtagaca gtagccgtat 420
 acctgaagct gca 433

<210> 12305
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-A3

<400> 12305

cccacgcgtc cgcccacgcg tccggcgggt catcgctccg atcatattct tggggccggt 60
aacgctctcc gcccgccgct cacaccaca aaaaaccctc gtggccaagg gcgccctcgc 120
gccagatctg tcgcctgcct tcgctgtagc ttttccgtat cggatgagct cgaggggtac 180
ggcccggctc gggttagttt cctggagagg ttcccatgaa tgttagggtg cgactgcgat 240
ggaattgaag tacaagtact cgggtggaaag ctttgcgtgt gcatgtgatt ctgactagaa 300
ggcgaatata gagccaccac cgtgcgcttt gatgcgtgca actgaattca ctgatgttct 360
gcggaggcgc atctgatcag tgtggatttc tgcaacttgt agttttatcc cgagtgttat 420

421

g

<210> 12306

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-A5

<400> 12306

caacaatggc taccaagata ttaaccctcc ttgcgcttct tgcgctgggt gtgatcgcaa 60
caaatgcgtt cattattcca caatgctcac ttgctcctag tgccattatt ccacagttcc 120
tcccaccagt tacttcaatg ggcttcgaac acctaacttt gcaagccaac atgcaacaac 180
aagcgcttgc ggcgagcgtc ttacaacaac caattgccca attgcaacaa caatccttgc 240
cacatctaac aatacaagcc atcacaacgc aacagcaaca acagttccta ccagcactga 300
accacctagc catggtgaac cctgccgcct ac 332

<210> 12307

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-A6

<400> 12307

atcaatgctg ctgagttggc cagttatgat caagtcaagc agtcaatttt gaaacgtcgc 60

tgggttcaaa gatgatgtgg tcacccacct ttttgctggt cttggtgctg gcttctttgc 120
 tgtttgtggt gggtcccccag ttgatgtggt taagtcgaga atgatgggtg actcagccta 180
 caaaagcact ctcgattggt ttgtgaagac gctaaagaat gatggccctt tggcatttta 240
 caaaggcttc ctgccaaact ttgcaagact gggatcttgg aatgtgatta tgttcttgac 300
 attggagcag gttcaaaagc tgtttgtgag gaaagcgaca agctgaagat agagtttttg 360
 cagtcagggtg gcgtacaatt gacgcacagg gtttttcttc tatagacaaa 410

<210> 12308
 <211> 206
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-B1

<400> 12308
 catcaagatc aacgtcacca acatgaacta agtcaaaatc atcaaactaa ctactacaa 60
 ctctagcac cgaatatact ccaactacat tatctattaa tcaaaccaag ctactattc 120
 tgtatcactc ccaacatata aacttctctc tatatatcta ttctatcttc atttccaaat 180
 ccactctttc accttgctgg tattat 206

<210> 12309
 <211> 426
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-014-Q1-K1-B12

<400> 12309
 cccacgcgtc cgcccacgcg tccgcccacg cgtccgctca gatacagctg gaggcagttg 60
 tgtgnngaag tgggactgcg cttggtgagc tccctcctta ttttatatca cgagcagctc 120
 gcttatcagg aagcgagtca aaagctgttc aggagcttga tgcagctact tccaaagaag 180
 atgggccagt agcatcatcc cttaatcgaa ccaagcgttg gcttctctct cactcccaac 240
 atctcaactt cttctctatc ttgattcttg cttcgggttc aaatccactc tttgaccttg 300
 ctggtattat gtgtgggcaa tttggtgtgc ctttctggga gttcttggtt gctactttga 360

ttgggaaagc catcatcaag actcatattc agacactatt tatcgtgtcc ctgtgcaaca 420
atcagc 426

<210> 12310
<211> 411
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-014-Q1-K1-B3

<400> 12310

gtggtctcga tagaaatact tctcttacag tattttttga tgtctcaccg agtgaactag 60
cnatccatcc aggaaacgaa aatccccctta tgtatataca atttgtgaca agttaccaac 120

accagaagg tcaaatgagg ataagagtta ctacgatatg caggaaatgg gtagatgggt 180

ccactaatac cgaggaatta gttgaagggt ttgaccagga aactgcagct gttgtgttgg 240

caagatacat ctctttgaaa atggagatgg aggaagagtt cgatgcaacc cgggtggcttg 300

atagatctct catagtctt tgttcaagat ttggggatta ccggaaggat gatccctctt 360

catttagcct gcattcaaatt ttctcattgt tccctcagtt tatgtttaat c 411

<210> 12311
<211> 423
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-014-Q1-K1-B4

<400> 12311

cagctctgct ccccgccgct cctctccgcg ccccttcac cgggatctcg gcatgggagc 60

ggccaccacc aacgggtcgg cggagcaggc gtccgcgccc gtgccggcgc tcaagttcct 120

catctacggc cgcacggggt ggatcggggg gctgctgggc ggcctctgcg ccgcgcgcgg 180

gatccccctt gtctacggcg ccggcaggct cgagaaccgc gccagctcg aggccgacat 240

cgacgccgcc gcgcccaccc acgtgttcaa cgccgcgggc gtcacgggccc gncccaacgt 300

cgactggtgc gagacgcacc gcgccgagac catccgcgcc aacgtcgtgg gcacgctcac 360

gctcgccgac atctgccggg gccgaggggt cctgctcatc aactacccca cgggctgcat 420

ctt

423

<210> 12312
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-H5

<400> 12312

caggatccaa caggcaatcg cagcaggggt gaagaattgg gtattcacat actgaaggcc 60
cgctgggtgag aggtatggga gaagaaagga agctatagga tcttgcaagc attgtgggaa 120
aatgggtctac gacaccttac atattataaa cagcatctat actcatagaa acaacaattt 180
cttacattca accaactggc tgaattgaac tctgctgatt atttgcaaca tcaactacca 240
ttcagtcagc tagctgatgc ctacccccag caatttcttt cattcaacca actggcagga 300
ttgaactctg ctgcttattt acaacatcta caactaccac cat 343

<210> 12313
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-F8

<400> 12313

gttggcttct cctccccctc cggttctggt tcgggttcgt gaggttctcc ggggtggggg 60
ttcgtgggtg agcggatcga gatggcgggc tcggatgttg agtaccgctg cttcgtcggc 120
ggcctcgcct gggccacgga cgaccactcc ctccacaacg ccttcagcac ctacggcgag 180
gtcctcgagt ccaagatcat cctcgatcgg gagacgcaga ggtcccgcgg cttcggcttc 240
gtcaccttct ccacggagga ggcgatgcgg aacgccatcg agggcatgaa cggcaaggag 300
ctggacggcc gcaacatcac cgtcaacgag gccagtcctc gcggcgggcg tggaagcggc 360
ggcgggtgggt acggtggt 378

<210> 12314
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-G1

<400> 12314

cccagctctt caaccatata ggcttcaaca agcaatcgca gcaagcaaca tacctttgtc 60
ggccttggtg tttcaacaat cgccagccct atctttggtg cagtcattgg taaaaacat 120
cagggcacaa cagctgcagc aactcgtgct acctctgac aaccaagtag ctctggcaaa 180
cctttctccc tactctcagc aacaacaatt tcttccattc aaccaactgt ctacactgaa 240
ccctgctgct tatttgcagc aacaactatt accatttagc cagctagcta ctgcctactc 300
tcagcaacaa caacttcttc catttaacca attggccgca ctgaaccccg ctgcttattt 360
gcagcagcaa atactactac catttagcca gctagctgca gc 402

<210> 12315

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-G10

<400> 12315

cggacgcgtg ggcggacgag tgggtttttt tttttttttt tttttttttt ttaccctaga 60
gtagaaataa cgagtgcag tagtaaattg tcatattgca tcagttgata agttggtatc 120
tccggtgcaa cttgcttgag tagttgagtt gttgccaa caacactc cacttgaacc 180
acatattctt aaacattact agaacatcga agagacacac tacgcttaca caccgtcgtg 240
gaagaataat tgaatagccc caataccaca gtgatcgtga tctataaagg acaacaacat 300
gccgttcaag gccccattta atattaaaag gttttttaag tttaactact aatgggtttt 360
cctaagtttt tttcaacaac cattgctttt gccggttttt tttttgggat ttt 413

<210> 12316

<211> 289

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-G11

<400> 12316

ggggatttga caaactcgac ttccgatct cgatcaccaa agttcgcccc gatcgcaggt 60

gggtcattca aggccgtaac ctgtacttag ccggtatgca catgtcgaag aacctctacg 120
 ggaggtccac ccacaagaca gagggcctga tcaaattcta ccactaccac cacttcataa 180
 acgtcattga acagccttgc cctgagtttg tgccaatgcc agtcaacctg accaagacga 240
 tgttccaagg ggttccctat ctataccacg ataacattaa actattggc 289

<210> 12317
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-G12

<400> 12317

aagagttctt cagcgcctcc aatgtttatg cctgcccgat ttttccttga acccatgccc 60

cttttactaa cccgtgaccc aaacgctggc gcggagatgc cgatgcttcc tatggcagca 120
 ggtataggtg gtggcgccgg tgggctccac ctcaacggcg ccgccctgtt cggcaatccg 180
 atggccgcgc cccagcccat gagcttctac caccagatgg gcacggggac tgcttgcgct 240
 tgcggtctcg atgtttctgc ccccgaaaat aagccctcct cgatggtgtc gcaaaaagac 300
 gaccaggcta atggcgctga gatctcgctg atgatgtccg tggccggccc aaggccttgg 360
 aacaacaaca accattaaaa atgattgcgt gtggaagtac tg 402

<210> 12318
 <211> 264
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-G5

<400> 12318

caattcaaca agtacttta catgcttcta gtccctaggca acttagcaat tgaggataag 60
 cacattcatc agaacatgca catgagcgtc aacttgcttg tttccctact aaagaaaaac 120
 tgacagaatg taagatgcat gtacatcaag agcaccatga ataatccata cagcgtgttc 180
 taagtctgct cttttgtgaa gtctgctaag ttctggcacc gaggttttat tgaattaaac 240
 tcttggtaaa agtatgtttt tgga 264

<210> 12319

<211> 356
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-013-Q1-K1-G7

 <400> 12319

 cccactcgtc cgccacgcg tcctaataaa aaaaaaaaaa aaaaaaaaaa aaaagaaaga 60
 ttaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaggcg ccctttttaa agaatccaat tttacttacc cttccttcca 180
 acttaatact ttttttatag tgtaacctaa attaaattaa tttcccttct ttttaaaact 240
 tcttaattgg aaaaaccttg gctttaccaa attaaatccc ttgaaaaaa atcccccttt 300
 cgcaagttgg cttaatacca aaaagcccct aaccaatcgc ctttccaaaa attttc 356

<210> 12320
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-013-Q1-K1-G8

 <400> 12320

 ctttcaacag gaaaatcctc tgagaaaact gatgtatttg gctatggaat tactctggta 60
 gggcttatta caggacaacg tgccttcgat ctagctcgtc ttgctaataga tgatgatgtc 120
 atgcttcttg actgggtcaa ggggttgctc aaggagaaga aactggagag tctgggtcgac 180
 gaagatctag accacaacta catcgatgtc gaggtggaat ctctgatcca ggtggcgctc 240
 ctctgcactc agagcaaccc catggaacgt cctaagatgt cggaggttgt gaggatgctt 300
 gaaggcgatg gtctcgccga gaggtgggag gagtggcaga aggtagaagt ggtacggcaa 360
 gaggttgaac taagccctca tcgaacctcg gaatggattc tcgacttcac cggcaacctt 420
 c 421

<210> 12321
 <211> 208
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-013-Q1-K1-H10

<400> 12321
 ttcccttctc taccactct tcctccact ctctctaaaa aaaaaaaaaa ttttttaaaa 60
 aaaaaaaaaac aaaaaaaaaa acaatgtcat tatttaata tattatacca tatcaaaaat 120
 acaaaaaata aaaaatcaaa cataataaaa tattttatct tctttaattt tttccaattc 180
 acttttctact tcctttacaa tttacaac 208

<210> 12322
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-H11

<400> 12322
 gtgatggtgc tgaatatcca tgcgatactg agtctcttga tgacgatcta gatgatagag 60
 gtaaggaaga tgaatttga gattcaacta tcaggaagtc tttcagttat gggctctctgc 120
 aatctgacaa ctatgttggt ggcctagttt atgcccacgc aaagattggt ggggagcatg 180
 aggaccggat atattatagt aaccgaaaaa ctgatgtcag tttccatgta gagaaaggat 240
 tgccatcaac cacagagaat gggttgctaa ctgctaagcg cagtatactt ccttggagaa 300
 agaggaaact gagtttacgg tcgctgaagg ctaaaggatga acctctcttg aaaaaggcat 360
 atggggaaga gggaagtgat gatattgaat atgatcgacg cttgctaaca tcatttgatg 420
 aaatctgt 428

<210> 12323
 <211> 400
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-013-Q1-K1-H2

<400> 12323
 cccaacacca cctcgctgc gatcttcgta gcctccgtcg cgtcgagcat cgagtcaggt 60
 cggcctactg cggaagtagc aaggatgagc tcataagaa tgctgcctac attggcaccc 120
 ccggcaaggg tctccttgct gctgatgagt cactggcac cattggcaag cgcctttcca 180
 gcatcaatgt cgagaacgtt gaggagaacc gccgtgccct ccgtgagctc ctattctgct 240

gccctggtgc tctccagtac atcagcgggtg tgatcctctt cgaggagacc ctgtaccaga 300
agaccaagga tggcaagcct tttgttgatg tcctcaagga gggaggcgtc ctccctggca 360
tcaaggttga caagggcacc attgangttg ttggcactga 400

<210> 12324
<211> 272
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-013-Q1-K1-H3
<400> 12324

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aataaaaaaaaa aaaaaaaaaa aaaaaaaaaag 60
aaagaataaa aaaaaaaaaa aaaaaaaaaa taaaaaaaaa aaaaaaaaaa aaaaaataaa 120
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaactaaa ttaataaaaa aactttttaa ttcattccatt ttaataactcc cttaataaaa 240
aacatttttt tacttattta atattaccaa aa 272

<210> 12325
<211> 354
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-013-Q1-K1-F7
<400> 12325

ggccaaaaag ttgctcgccc agcagccagc gccttcacca gatcgagcaa aacggctgag 60
ctcagctcga cctaccacta cctcccgtt ggcgcctggg actggcaacc ggcgtgcgca 120
gaatgctgcc caccgggtgc aggtgcagcc tcctctcctg cctccgcccgc gacaagggcg 180
aggcggggccg aaccgacccc cgcgtcgcgg acgagcccac cgcgtcgtcg ctccggcaagg 240
gcagcgcccgc ggctcggcgg ttcgcgtggg ccgagatcga gtccgtcacg gcgggggttct 300
cgtccaggggt catcggccag ggcggcttca gcaccgtgta cctggcctgc ctct 354

<210> 12326
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-E11

<400> 12326

cccacgcgtc cggcgctcaa gttctcgcgc ccacagccaa atttttctcc actcaatggg 60
ggcataagct gcaactgcagc catggacgcc agcggagccg gtagcaaggc gaagaagggg 120
gcggctgggc gcaaggctgg cggccccagg aagaagtcgg tgcgcggtc cgtcaaggcc 180
gggctgcagt tccccgtcgg cgggatcggg cgctacctca agaaggggcg gtacgcgcag 240
cgcgtgggca ccggcgcccc cgtctatctc gccgcggtgc ttgagtacct cgccgccgag 300
gtgctggagc tggccgggaa cgcggcgaag gacaacaaga agacgcgcat cgtcccgcga 360
cacttgctcc tggcgattcg taacgacgtt gagctcggca agctgctgtc t 411

<210> 12327

<211> 268

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-E12

<400> 12327

tccccgtcca cccaatcctt ccgccaatcc ttccgaacaa aaaaactaaa tttaaaaaaa 60
caaaaaataa tacaataaat caagaaaatt atactacact gcagacaata aaccacaaac 120
aaaccatata caaaagctaa aaaagatact attaaacaca aagctaactt acccatcaag 180
aaatctctat ctccatccat caaggctcct cttcactttc tcctaaacca tatcgttcgc 240
tacctcaaaa atgatcaata cgctcaac 268

<210> 12328

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-E2

<400> 12328

gcaaagcggc agtgcgtaga gaggatcgtc gaacagaaca gcatgaagat ggtcatcggt 60
cgcgtcgtgt gcctggctct gtcagctgcc agcgctctg caatgcagat gccctgcccc 120
tgcgcggggc tgcagggtt gtacggcgct ggcgcgggcc tgacgacgat gatgggcgcc 180

ggcgggctgt acccctacgc ggagtacctg aagcaaccgc aatgcaaccc gcttgcgggc 240
gcgccctact acgccgggtg tgggcagccg aacgccatgt tccagccgct ccggcaacag 300
tgctgccagc aacagatgag gatgatggac gtgcagtccg tcgcgagca gctgcagatg 360
atgatgcagc ttgagcg 377

<210> 12329
<211> 380
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-013-Q1-K1-E3
<400> 12329

aaaaacacac caagcgaatc gcactaccaa cgacctaaca ccaatggcta ccaagatagt 60
aggcctcctt gcgcttcttg cccttttagt gagcgcaaca aatgcgttca ttattccaca 120
gtgctcactt gctcctagtg ccagtattcc acagttcctc ccaccagtta cttcaatggg 180
cttcgaacat ccattccgtgc aagcctacag gctacaacta gcgcttgagg cgagcgccct 240
acaacaacca attgcccaat tgcaacaaca atccttggca catctaacc tacaaccat 300
tgcaacgcaa caacaacaac aacagtttct gccatcactg agccacctag ccgtggtgaa 360
ccctgtcacc tacttgcaac 380

<210> 12330
<211> 442
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3059-013-Q1-K1-E4
<400> 12330

gcgaagcgca ctagcaacaa cctaacaaca atggctacca agatattatc cctcctgcnc 60
gtcttgcgct ttttgcgagc gcaacaaatg cgtccattat tccacaatgc tcaattgctc 120
ctagttccat tattccacag ttctcccccac cagttacttc aatggccttc gaacaccag 180
ctgtgcaagc ctataggcta caacaagcga ttggcgagc cgtcttataa caaccaattg 240
cccaattgca acaacaatcc ttggcacatc taacaatata aaccatcgca acgcaacagc 300

aacaacagtt cctaccagca ctgagccacc tagccatggt gaaccctgtc gcctacttgc 360
 aacagcaact gcttgcaccc aaccacttg ctctagcaaa cgtagtttca aaccagcaac 420
 aacaacaact gcaacaattt tt 442

<210> 12331
 <211> 191
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-E7

<400> 12331

aggaccttcg tctcccggtc attatctcac atcttccga gcgagttctt ggtgtacgtt 60
 ttctcttcg gaccagctcc aatgctcttg gtgtatcttg ccactctcac caatcaagtt 120

ttcatgtctg atctctacat tcatatccca actgccttcg atcccttctc tgaatccaat 180
 tcttgtcact c 191

<210> 12332
 <211> 228
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-F1

<400> 12332

cccacgcgtc cgctgtgtg gtgcaaaact ctgaataaaa cctgaataaa acctgatgga 60
 ggacaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaat aaacaaatt aaaaactcta ttaatacc 228

<210> 12333
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-F10

<400> 12333

cggacgcgtg ggtagcaaca tagaaagcac aatagtgtac caacaatggc agccaaaaga 60

ttgcctcct tatgctcctt ggtctttctg caagtgtgc tacggcgacc attttcccgc 120
 aatgctcaca agctcctata gcttcccttc ttccccgta cctctcacca gtgtgtctt 180
 cagtatgtga aaaccaatt cttcaaacc tacaggatcc aacatgcaat tgcacaggc 240
 atcttacctt tatcaccctt ggtccttcaa caatcatcag ccctattaca gcagttacct 300
 ttggtgcatt tattggcaca aaacatcaag gcacaacaac tcgtgctagc aaaccttgct 360
 gcctactctc agcaacaaca gttacctttg gtgcatttgt tggcacaaaa catcagggca 420
 caacaact 428

<210> 12334
 <211> 384
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-013-Q1-K1-F11

<400> 12334

agaccattag ctttatctac tccagagcgc agaagaacc gatcgacacc atgaggggtgg 60
 ggctcggtgc cctcgctctc ctggctctcg ctgcgagcgc cacctccacg catacaagcg 120
 gcggtgcgg ctgccagcca ccgccgccg ttcattctacc gccgccggtg catctgccac 180
 ctccggttca cctgccacct ccggtgcac tcccaccgcc ggtccacctg ccgccgccg 240
 tccacctgcc accgccggtc catgtgccgn cgcgcgttca tctgccgncg ncacctgcc 300
 actacctac tcaaccgncc cggcctcagc ctcatccca gccacacca tgcccggtgcc 360
 aacagccgca ttcaagcccg tgcc 384

<210> 12335
 <211> 304
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-F12

<400> 12335

ccactcggtc gcttgcatth cctttaaatc cttccctatt taatttttca ggaaaaatcc 60
 cacttttat gtttttttct attttagtcc cttttaatgt ctcttgtttt ttacctgga 120
 cgctactttt cttgtgcagc ataatgcata tacaagtttt atcatgtaag taatctttca 180

attttcctgc tgcataatggt gttttccact ttttcccatg atcattaata ctatacatc 240
tattcctatatt taaatccttc ctttttaaata tattgaaact tttgccttta attaaaattc 300
taat 304

<210> 12336
<211> 433
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3059-013-Q1-K1-F3
<400> 12336

cccacgcgtc cgatatgaaa cacatgtcgg aatgagtagc ccggaaccga agataaagac 60
agatgtaaac tttagggatg aagtcctccc aagaataaaa aaacttggat acaatgcagt 120
gcaaataatg gcaatccaag agcactcata ttatggaagc tttggatacc atgtaactaa 180
tttttttgcg ccaagtagtc gttttggtac ccagaagaa ttgaagtctt tgattgatag 240
agcacatgag cttggtttgc tagttctcat ggatgtggtt catagtcatg cgtcaagtaa 300
tactctggat ggggttgaatg gttttgatgg tacagataca cattactttc acagtgggtcc 360
acgtggccat cactggatgt gggattctcg cctatntaac tatgggaact gggaaatttt 420
aagatttctt ctc 433

<210> 12337
<211> 258
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-013-Q1-K1-F4
<400> 12337

cggacgcgtg ggatgacgtt caagcggagg aacggcggac gcaacaagca cgggctgtgc 60
gacgtcaagt acatacgtg ctccaactgc gccaagtgtt gtccaaagga taaggctatc 120
aagcggttct tggtagaggaa cattgttgag caggctgctg tgagggacgt gcaggaggct 180
tgtgtgcatg atggtatcat agtcgccctt attagttgca taatttagtc ggatgatcta 240
tttatagggt atctagag 258

<210> 12338
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-E1

<400> 12338

cagctagcaa catagaaagc acaatattgt accaataatg gcagccaaaa tattttggct 60
 cgttatgctc cttgggtcttt ctgcaagtgc tgctacggcg agcattttcc cgcaatgctc 120
 acaagctcct atagcttccc ttcttcccc atacctctca ccagcgatgt cttcagtatg 180
 tgaaaatcca attcttctac cctacaggat ccaacaggca atcgcagcag gcattcttacc 240
 ttatatcccc ttgttctctc aacaatcatc agccctatta cagcagttac ctttgggtgca 300
 ttatttggca caaaacatca gggcacaaca actacaacaa ctctgtgctag caaaccttgc 360
 tgcctactct cagcaacagc agttaccttt ggtgcatttg ttggcacaaa aca 413

<210> 12339
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-C5

<400> 12339

gcattgtacac gggccagttc gtctactgcg gtcgccgcgc caccctctcc atgggcgggc 60
 tgctgcccct gcgcgggatc cctgaggggtg ccgtcgtctg caacgctcag caccacgtcg 120
 gtgaccgcgg tgtcttcgcc agggcctctg gggactacgc cattgtgatc agccacaacc 180
 ctgacaacgg cacatcgagg attaagctgc cctctggcgc caagaagatt gtccccagca 240
 gctgccgtgc tatgattggg caggttgctg gtggaggcag gactgagaag ccgatgctca 300
 aggctggtaa cgcgtaccac aagtaccgtg tgaagaggaa cagctggccc aaggtgctg 360
 gtgtggccat gaaccctgtg gagcatcccc ac 392

<210> 12340
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-C6

<400> 12340

atcacggcgg gcgccgacgt gctggtgatg ccctcccgtg tcgagccctg cgggctggac 60
cagctctacg cgatggcata cggcaccgtc cctgtggtgc acgccgtggg cgggctcagg 120
gacaccgtgg cgccgttcga cccgttcagc gacgccgggc tcgggtggac ttttgaccgc 180
gccgaggcca acaagctgat cgaggcgctc aggcactgcc tcgacacgta ccggaactac 240
gaggagagct ggaagagtct ccaggcgcg cgcgtgtgc aggacctcag ctgggaccac 300
cgggctgagc tctacgagga cgtccttgtc aaggccaagt accagtgggtg aacccttcgc 360
ccttcgcata aatatcttcg gtttgatccc attgtacatc gcgcgtttga cggctctcgt 420
gaagaacttc ata 433

<210> 12341

<211> 250

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-C7

<400> 12341

aaaaatctta accacaatat cttactttcc aatctaacat aaacaagatc aaggagcgtc 60
tcattttcca ctccaacgtc acattccaat acgcgaccca taacttgctc ataataccgg 120
atcacattta ttccataatt actgctccca cctaccccaa gacaatacta cagttctcct 180
acatttacia tatctatacc tcgaactctt aatgcactaa gacaatcact cacttaatca 240
atgcaacttt 250

<210> 12342

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-C8

<400> 12342

cccacgcgtc cgcccacgcg tccgcccacg cgtccgagct gaacaagcag agtgttcgtc 60
ttatcaacia caatgtcatc gaggagggcc ttgggaagca taatatcatc tgcacgcagg 120

accttgttca cgagatcatg acggttggcc cacacttcaa agaggccaac aacttcctct 180
 ggccattcaa gctgaaagcg ccccttggtg gcctcaagaa gaagaggaac cactatgtgg 240
 aggggtggcga cgctggcaac cgtgagaact acatcaacga gctcatcaag aggatgaact 300
 aggtctctct gtatcctgtg agaatgcatt cgatgtcggc atggatatgc aattttgttc 360
 catggctgtc atacgtcacg acttcaacta ggaaatgggt cctgtttatg tttgca 416

<210> 12343
 <211> 431
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-013-Q1-K1-C9

<400> 12343
 gcaggaaatg accaaaagag aatacgtcga agatcaagat gctgaagatc ctgatgacgt 60
 gattatctcc cttacaactc agattgcacg acgggatgaa gaaatggctc cttatatcac 120
 ggaatcagaa aggaattaca tatttggtgg gatttccagt gttgctgcta atgcatcaat 180
 aaaggcactt gctcaaata agtcaataaa cttgttagga gtccagcaaa tatgcaagaa 240
 ttcgatagct ctggacaggc tcttgacgcc ataccctcaa tagatagtga agcagtccaa 300
 cagcgattgg atcgcgttcg aacgttctat gagttgttaa atttgccttt tgagtctttg 360
 cttggattca tcgcagaaca tgaatatntg ntntctgcta aagaatacct gagtgttcta 420
 aaggtcaatg t 431

<210> 12344
 <211> 380
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-013-Q1-K1-D1

<400> 12344
 ctggccaagc tctcggtcgt gcccgtcagg aggggtact ggggaaacaa gatcggcgag 60
 cgtcacactg tgccctgcaa ggtcaccggc aagtgccggt ccgtcaccgt gcgcatgggtg 120
 cccgcgccca aggggttcog gattgtcgtc tgccgcgttc ccaaaaaagg ccctcaagtc 180

ggccgcattg aagatggctt tacctcgntc cgtgggtcca acaagacact cggtaacttc 240
 gtcaaaggaa ccctttgatt gtctgatgaa gacctacggc ttcctcactc ctgagttctg 300
 ggccgagaac aagtatgcca agaccccggt ccaggagttc accgacctct tggctaagcc 360
 gacaaagggt cttctgatcg 380

<210> 12345
 <211> 431
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-013-Q1-K1-D11
 <400> 12345

gcgcttgttg tgtcaacaat cgccagccct atctttggtg cagtcattgg tacaaaccgt 60
 cgggtcacaa cagctgcagc aactcgtgct acctgtgatc aaccaagtag ctctggcaaa 120
 cttttctccc tactctccgc aacaacaatt tcttccattc aaccaactgt ctacactgaa 180
 ccctgctgct tatttgcagc aacaactatt accatttagc cagctagcta ctgcctactc 240
 tcaacaacaa caacttcttc catttaacca attggccgca ctgaaccccg ctgcttattt 300
 gcagcagcaa atactactac catttagcca gctagctaca gcaagccgtg cttccttctt 360
 gacacaacaa caattgctgc cgttctacca gcagtttgcg gctaaccccg caaccctctt 420
 acaactacaa c 431

<210> 12346
 <211> 263
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-013-Q1-K1-D12
 <400> 12346

caacaagcaa catagaaagt ggaatccagt agcaacaata gagcaacaat ggcgagcagg 60
 atattttccc tccttatgct ccttgctctt tctacatgtg ttgctaacgc gacaattttc 120
 cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaattata 180
 gcttcaatat gtgaaaaccc agctcttcaa ccatataggc ttcaacaagc aatcgcagca 240
 agcaacatac ctttatcgcc ctt 263

<210> 12347
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-D2

<400> 12347

ggtgatgcga cgcccgctccc gttccaagtc ctgacaaccg agcgtacgct gagctggagt. 60
gaacggcgct ggctaccgga agagccgagc cggaccaagt ctctctgtcc ctcacctcgt 120
cgccgatgga gggcggcgac tcgtccggcg ccggcgccgg cggcgccgtg ggccgcggcg 180
gccaagtggc ggagcgacgc gtcgcgggcg ttccagtact acctggaccg ctgcagcgct 240
cacgccacgg ggcggtggct cggcacgctc gccgccggg ccatctacgc gctgcgggtt 300
tacatgggtgc aaggcttcta catcgtcacc tacgggctcg ggatctacct tctcaacctc 360
ctcatcggtt tcctctcccc catgggtcg 388

<210> 12348
<211> 245
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-D3

<400> 12348

cccactcgtc ccgcagccgc tgcagcttac aaccaccacc accaattcat ctaccgagtc 60
cgttacatct gacacctacg ttccacctgc cacctcccgt tcatatacca cccctatcc 120
acctttcgcc atcagtcacac ctatcatcat ccgttcaagt gccgtccaca attcatctgc 180
caacgtcacc atgccaatac cctactcaac caaccaagtc ttaaactcat acccatacac 240
accca 245

<210> 12349
<211> 421
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-013-Q1-K1-D4

<400> 12349

ccggagcagg cgaaacggcg ccgacgacaa tggcagcaac aagggttcc ccggtccgtc 60
 tgttgctgct gctcaccgtc cagctgagct tgctcttccg cctccccgac tccccctcca 120
 ccctcgccct cgccctcgcc ctgcgccggy aaccagacca acagaacgcc aagcagcatc 180
 gccagcccg cgtgctggtg cagtcgacgt gcaactccac cagcttctac gacctctgca 240
 tcgccgctg cgcgcgcgac cccgccagct ccaccgnega cgtccccggg ctgggcggca 300
 tcgccgtgct cgcgcgcgca aacaacgcct ncggcacggc cgncttctc ggcaacgcca 360
 ggcagccgc ggccaccccg catgcggacc gcgcgcgttc ctgcgcgagc aggcctacca 420
 c 421

<210> 12350

<211> 227

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-013-Q1-K1-D5

<400> 12350

gtactcggtc tcggaattcg ccgggtgcga cgccacgccg tcgcgatgtg tactccactc 60
 tnactggtgg nnttttgagt gcnttggtat tctcctaagn ngatggcccc agacgccttg 120
 gagnncatgt ctctccgttg cgggtgcaac tttcttgaa agtgaagcnn agatgatttn 180
 tngctgctgc taactaanng atggatgccc aacgacctcn nccaaat 227

<210> 12351

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-D6

<400> 12351

ctttatcgtc cttgttggtt caacaattgc cagccctatc tttggtgcag tcagtgtgac 60
 aaaccatcag ggcacaacag ctgcagcaac tcgtgctacc tctgatcaac caagtagctc 120
 tggcaaacct ttctccctac tctcagcaac aacaatttct tccattcaac caactgtcta 180
 cactgaaccc tgctgcttat ttgcagcaac aactattacc atttagccag ctagctactg 240

cctactctca gcaacaacaa cttcttccat ttaaccaatt ggccgcactg aaccccgctg 300
 cttatttgca gcagcaaata ctactacat ttagccagct agctgcagca aaccgtgctt 360
 ccttcttgac acagcaacag ttgctgcctt tctaccagca gtttgcggt aaccccgcaa 420
 cccttttaca actacaaca 439

<210> 12352
 <211> 368
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-013-Q1-K1-D7
 <400> 12352

ggaaacccta gccgccatat ctcacgatcc actcgagcac caagccgagg gaagtttggtg 60
 agcgatggcg cgcggcgtgg tgctggcgaa gggcggtcg gtcgcgggca agaagaagg 120
 gtcggtttcc ttcacgatcg actgcaccaa gccagtggag gacaagatca tggaggctcg 180
 ctcgctcgag aagttcctgc aggagcgcac caaggctgcc gtcgacaagg ctgtcaacct 240
 cggcgactcc gtcaccatct ctgcgagaa gaccaaggtc accgtcacct ttgacggacg 300
 cttgtccaag aggtacctga agtacttgac caagaagtac ttgaataagc acaacgtgcy 360
 ggattggc 368

<210> 12353
 <211> 361
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-013-Q1-K1-D8
 <400> 12353

ctcagcatc cgttgacgca tcccggctac accgtccaac tgctgtacca ggcggacggc 60
 tacatccctc gggctggcag tatcacacgc ctaaccagcc acaacttcag catcctgaac 120
 ctcgtacaga taagctcggc tctgtatac ctgtaccagg acgccatcat gtttcgctc 180
 tggaacttca acgctacat ctccatctac cacatcaagg gctgtacacg ggtacagctc 240
 gtcagctaca acgctaccac gtctttagac gacctgctct gacctgcgct gctactcatc 300
 gcaccttact gctacctgca agccacctat gctcactgag caagctcgca ttacatcgcc 360

t

<210> 12354
 <211> 368
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-013-Q1-K1-D9

<400> 12354

ctgccctatt tcttctcaa gccgcaggc cgctccctct gctgtccagg gtgcaggctg 60
 tcttctctcg cccctgctct cccctggcgc gaccggcccc tagctcgagc agggagctcg 120
 tcgtcgccca tggctggcct cctctataca gcgaccgcca cccctgtag cttccctct 180
 gcctcggcgc ccccttcttc ttgtacctcc agcagcaagg atttaacccc ccatggcgtg 240
 tggccttgcc tgctccacgg tctgcagcag cctgcgctc acctnccatg gaaaaccagt 300
 ccgcttctg cctccggcaa gccgcatttg ttccctgcgc gagctcgctg cggggcgccc 360
 tagccact 368

<210> 12355
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-C4

<400> 12355

cgagctgcta cccctttttt atctttttat attataccac caactgtcca atatactagt 60
 tcggtcttat caacaactat gtcattcaat atgcccttcc taatcataat atcatctcca 120
 tctaacacct tgttcacgag atcatgactg ttggcccaca cttcaaagag gccacaact 180
 tcctctggcc attcaagctg aaagcgcccc ttgggtggcct caagaagaag aggaaccact 240
 atgtggaggg tggcgactct ggcaaccgtg agaactacat caactagctc atcaagagga 300
 tgaactaggc tctcttgat cctgtgaaaa tgcattctat gtcggcatgg atatgcaatt 360
 ttgttccatg gctgtcatac gtcacgactt caactaagaa atgggtcctg tttatatt 418

<210> 12356
 <211> 430

<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-013-Q1-K1-A9

<400> 12356

cggaacgcgtg ggcggacgcg tgggcaacaa gcaacataga aagtgggaatc cagtaggagc 60
gaatagagca acaatggaga ccaagatatt ttccctcctt atgctccttg ctctttctac 120
atgtgttgct aacgcgacaa ttttccctca atgctcacia gctcctatat agttcccttt 180
ttccccatat acttcacatc atttatagct tcagtatgtg aaaacccatc tcttcaacca 240
tataggcttc aacaagcaat cgcagcaagc aacatacctt tatcgccctt gttgtgtcaa 300
caatcgccag ccctatcttt ggtgcagtca ttggtacaaa ccatcagggc acaacagctg 360
cagcaactcg tgctacctgt gatcaaccaa gtagctctgg caaacctttc tccctactct 420
ccgcaacaac 430

<210> 12357
<211> 242
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-B11

<400> 12357

attcccgcgc gagccactcg tctccgagc gtccgcaact agcaacatat tattcacaat 60
agtgtaccaa caatgtcagc cagaatattt ttctcctta tgctccttg tctttctgca 120
agtgtgcta ctgtaccat tttcccgcaa tgctcacaat ctctatagc ttcccttctt 180
cccccttacc tttcaccagt gttgtcttca ttatgtcaaa acccaattct ttaaccttac 240
at 242

<210> 12358
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-B12

<400> 12358

cgcacacgca cgaccacgcg acccgccaaa cacagcccgc agagacgcga ctatgagggc 60

caagtgggag acgaatctca tgaccaggct gaagaagaag cgctgaaga tgatgcagag 120
atccaactaa gctaataaggc atagatccta gtagtctcat cataattgtg tatcgtggct 180
tcgatacatg agtgcacga tagatgtaag attctattta tgcatagacg ttacgatatt 240
agttcaatgg ctccgtttgc aaacctgcac ttgataggcc atctatcctg cactctagct 300
atatatcata tcgttggtgct tagacatatc cataattctg tgctaagaac ctatcatgat 360
ggagctttat gaa 373

<210> 12359
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-B2

<400> 12359

gcgaagcggc agtgcgtaga gaggatcgtc gaacagaaca gcatgaagat ggtcatcggt 60
cgcgtcgtgt gcctggctct gtcagctgcc agcgcctctg caatgcagat gccctgcccc 120
tgcgcggggc tgcagggtt gtacggcgct ggcgcgggcc tgacgacgat gatgggcgcc 180
ggcgggctgt acccctacgc ggagtacctg aggcagccgc agtgcagccc gctggcggcg 240
gcgccctact acgccgggtg tgggcagccg agcgccatgt tccagccgct ccggcaacag 300
tgctgccagc agcagatgag gatgatggac gtgcagtccg tcgcgcaaca 350

<210> 12360
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-B7

<400> 12360

ctaacaacat acaaagcaca atttcgttcc aacaatagct gccaaaatat ttgggctgct 60
tattctccta gctatttctg caagtgtgc tactgctacc atattccctc aatactcaca 120
agtcctata acttaccttc ttccccgta cctatcacca actgtgtctt cagtatgtga 180
aaaccaatt cttcaaccct acacgatcca acatgcaatc acagctgaca tcttaccttt 240
atcacccttg ttctccaac aatcatcagc cctattacat catttacctt ttgtgcattt 300

attgtcacia aacatcatgt cacaacaact acaacaactt gtgctagcaa accttgcttc 360
ctactcttat caacatcatt ttcttccat 389

<210> 12361
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-B8

<400> 12361

atgttgctcag aattcacccc tgagcagcag catgcgttct gccagtttgt aacgtgtgct 60
cctcggcttc cacatgggtgg attggctgcc cttagcccca agcttactat agttaggaag 120

catecttcaa gtgctgtgaa tacttcaaat tcaactgggg cagtagagtc cgctgatgat 180
gatttgcccta gtgtgatgac gtgcgccaat tatctgaagc tgcccccta ctccacaaaa 240
gaaatcatgc gcaagaagtt gctttatgcg atcctggaag gccgaggatc atttgatctt 300
tcataagaaa tatacaatat ccgaactaac atacaggggt cagttttatt ctggagattt 360
agtttcttgg tccatgtata aactgagtt gaggttacca gctcactcag caaa 414

<210> 12362
<211> 413
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-013-Q1-K1-C1

<400> 12362

ggggaagaga gagagagaga cggaaagggg gagatgagcc ggagcctgng gatcccgtga 60
ggttgctcca tgaggcagcg ggtcatgtgg tgacggtgga gctcaagacc ggcaagtgt 120
accgggggtc catggtcgag tgcgaggata actggaattg ccagctcgag aacattacct 180
tcaccgccaa ggatgggaag gtttcgcagc tggagcacgt cttcatcaga ggaagcagag 240
tgagatttat gattatacct gatatgctca agaacgcttc catgttcaaa cgcttggaag 300
cgagaattat gggcaaagga tcagctattg gagttgggcg tggacgtgca gttgcaatgc 360
gtgctcgggc tgcttctggt cgtggtggtg gtcctgttgg gcgaggcaac gcg 413

<210> 12363
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-C10

<400> 12363

cgcaattgag gctgctggca cagcatttca gctctacagc tcgggtatct tcaactggggg 60
ctgtggaaca gcgctggacc atggtgtcac ggccgtcggc tacgggacag agaacggcaa 120
ggactactgg atcgtgaaga actcatgggg cagcagctgg ggcgagtcgg ggtacgtgag 180
gatggagcgc aacatcaagg cgtccagcgg caagtgcggg atcgcggttg agccgtcata 240
cccgttgaag gagggcgcca acccgccgaa ccctggcccc agccccccgt ccccgacccc 300

ggcgcccgcc gtgtgcgaca actactactc gtgccctgac agcaccacct gctgctgcat 360
ctacgagtac ggcaagtact gtttcgcctg gggtgctgc cgcctcgagg gcgcc 415

<210> 12364
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-C12

<400> 12364

cccacgcgtc cgccacgcg tccggtacga gggcaatgtt gaggccactg gtgaggagtg 60
ctctgttgag ccagctgatg agaggaggcc tttccgtgct ctcttgatg ttggccttat 120
caggactaca acaggaacc gtgtctttgg tgcctcaag ggagcattgg atggaggcct 180
ggatattcct cacagcgaga agaggtttgc tggattcaag aaggacgaca agcagttgga 240
tgctgatacc caccgcaggt acatctatgg tggccatgtt gctgactaca tgaagaacct 300
tgctgaagag gagccagaaa agtaccagag ccacttcagt gcgtacatta agaagggagt 360
tgaggctgat gaaatagaag cgctgtacaa gaaggtccat gctgccatcc gtg 413

<210> 12365
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-C2

<400> 12365

ggtttcccg tggacgcacg cgtccgcgcc ctctcctcca gccgcttcac agcgccgccc 60
ctcgctctc cgactgccg cggagggccg ttcaagaggt tcgtggagat cgggcgcgtg 120
gcccttgtga actacggcaa agactacggc cgctcgtcg tcatcgtcga tgtggtcgac 180
cagaacaggg cacttgtgga cgccctgat atggtcaggt gccagattaa cttcaaacgg 240
ctctcactta cgcacatcaa gattgacatc aaacgtgtcc ccaagaagtc aaccttgatc 300
aaggctatgg aggaagctga tgtgaagact aagtgggaga acagctcatg gggcaagaag 360
ctgattgtcc agaagaggag ggctgcactc aatgactttg acaggttcaa ggtcatgctg 420
gcaaggatca aaaaggg 438

<210> 12366

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-C3

<400> 12366

gcgaatctta cttgcactct tacaaactat tttatcttat gttatctctc tacacttgcc 60
tgacaactac ccaagcttta agaaaccaa aatttcctat ttcattaaca tacaccatct 120
tatgatcact aaacctatct ttatactata tattagaacc tgtcattaat tttcaagcaa 180
gacgacggtc tttttataac caacattcat acttacaagt acacttaatt ttcttaaaaa 240
tattttgttt cacctaaacc taaattaaaa gtcctccctt aacaaaacca taactgtgaa 300
aat 303

<210> 12367

<211> 168

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-G4

<400> 12367

tcccactcct cctctaactc ttcactcttc cccatatcac aatcattata gctactttga 60

caaatttcgc taatccaaaa ctcaatcctc actctttaa atactacaag attcctttat 120
catatttaca ccttattatt tcaatcccta catctcattc cacatcac 168

<210> 12368
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-G8

<400> 12368

ccgacgcgctc cgcgacgcgc tgggtccatc tccatcccca tcccgtgacc cgtgcacggc 60
gccggtgcaa gtcctaacaa gccgcacgc atcgcatgcg tgtgctgtcc gaccgccatc 120
tccgcagccg gctggcctag ctacctcacc tcacctcagc caggcacact gcacacacac 180

ccatggtggt ggcggcgatg cgggcgccgt gcgctgtgcc agcgctgctg gtggcgggcg 240
cgacggcgac gctagtgtt ctgctgtgc tgtcaccgtc gagcgcgag ccggtgccgt 300
ccccggcggc ggcgccgggc cccgcgggcg ggaccgggat cgactcggcg tgcctgaact 360
cgctgctcaa catgtcggac tgcctcccg acgtgagcca agggagcacg gcgc 414

<210> 12369
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-G9

<400> 12369

gaaaatacag ctttgaagca tgagcatgtc acaagcaaac ctccatcgat agtcatggta 60
gaggcacggg tgctcgattt caatgaatgc tccacacctg tgaggaagaa agacgataag 120
aaagtggaaa tggttttagg aggacctgca acatcccctg ttacttcctc gcacttttgg 180
ataaatatgc ggtagccctt tgaggtagt gggagtgagg atgcttcgcc tatgctgttc 240
agtatgtaca tgtctgttat tcccataatt tccaccgttt tgaaatacac attccaatta 300
gtactttatt ctttgtgctt ggtaccctaa atgtcaattc ctaattgaaa atacattttt 360
ttttagtgtg taagatttgt aatgtgtcat ttgattatgt taaatattaa aca 413

<210> 12370

<211> 235
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-H11

<400> 12370

catccttgct ctctttgccc gatttatacg cacatcacat tctcgaatta ttccacaata 60
ctcaattgct gctaatagcaa atcacgtaca atttatacta gcaatgactt actactgctt 120
tgaaactcta tctattcaag cctaccttct aaaactggca cttacagaca gcacattacg 180
actatcgaat ggccaaatgc aacaacaatt cttggccaat ttacaaatg aagca 235

<210> 12371
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-H12

<400> 12371

acgcgtccga ttgaccac cgctccgaggt tcgtgccatc attgagggcc aaatgctgtc 60
gatgctgtgc cagcccgaga ggtttggcat gccgaaccct cccaaacgga tcatagcaac 120
cggcggggca tctccaacg aaagcatcct caagtcagtc gcgcagatct tcggctgccc 180
tgtcttcaca gtccagagac ctgattcggc atcgttgggt gcagcgtga gagctgcca 240
cgggtggctg tgcaacgcgc aaggtagctt cgtccccatc tcgtgcctgt accagggcaa 300
cctggagaag acctcccttg gctcgaaact ggcagtcccg gccggcgaca aggagcagga 360
ccggaagctc ctccagaagt acaccatcct ga 392

<210> 12372
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-H2

<400> 12372

gattggagaa ctgcacacca tgaagggtgt gatcgttgcc cttgctctcg tggcgctggc 60
tgcgagcgcc gcctccagta caagcggcgg ctgtggctgc cagacaccac cgtttcatct 120

accgcctccg ttctatatgc cgcctccgtt ctatctgccg ccgcagcagc agccgcagcc 180
atggcaatac cccactcaac caccgcagct aagcccgtgc cagcagttcg gatcctgcgg 240
cgtcggcagc gtcggcagcc cgttcctggg ccagtgcgtc gaggttcctga ggcaccagtg 300
cagcccggcg gcgacgccct acggctcgcc acagtgccag gcgctgcagc agcagtgctg 360
ccaccagatc aggcaggtgg agccgctgca ccggtaccag gcgacatacg gtgtggctct 420
gcaatccttc 430

<210> 12373
<211> 244
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-H3

<400> 12373
cttctcctcc cctcccggtt cgggttcggg ttcgtgaggt tctccggggg gcggtttggg 60
gggttagcgg atcgagatgg cggcgctgga tgttgagtac cgctgcttcg tcggcggcct 120
cgcctgggcc acggacgacc actccctcca caacgccttc agcacctacg gcgaggtcct 180
cgagtccaag atcatgctcg atcgggagac gcagaggtcc cgcggcttct gcttcgtcac 240
cttc 244

<210> 12374
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-H5

<400> 12374
cagaaataaa atcaataata gagagagatg aggtagcaac accggctgct taatctctgc 60
ttttccgtcc tctttatctc cagcgcacgc taaagggagg agcggagcgg cgaattcttg 120
tggtttccca agatgtcttc tccaagcaag cgccgggaga tggacctcat gaagctgatg 180
atgagcgact acaaggtgga tatggtgaac gatgggatgc aggagttctt tgttgaattt 240
cgtgggccta acgaaagcat ttatcaatga tggatttgga aggtttgaag agaactggca 300
aattcctgtt cttaccaatt cccattgatt gggttcatta ataagatata ttacccaaat 360

gtc gat gaaa tgt ctg gttc agt ctg tttg gat gtc atta acc agac atg gat ccca atg 420
 ttt gat ctt 429

<210> 12375
 <211> 307
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-012-Q1-K1-H6

<400> 12375

att ccc tctg tcaa aggttc ttgt ttc atg tagt cattca aacc cctgac gtat ctgagg 60

tgat cactgt gaagaaa gca accg ctccat acaatgcata cttga agggc ttgt tctcgg 120

atat gctctg attaaatggg tggcccatgt agtttacagc aaagg ttgcc acctggatca 180

tcat gttcac catgtacgaa accgtattca caagaaatta ttttccttgg ctttgttggc 240

aactgcatcc catgttatat gataatnga tattgccata cgacacttga gtatccatgt 300

agagaca 307

<210> 12376
 <211> 294
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-013-Q1-K1-A1

<400> 12376

gataggggcc taccatgggg gtgactgact caagagaagg gcctgggtcat aggctncggc 60

agtatgaatt tctgatcatg tcttatgtct gtactctgaa tcaactatgt atgagatctc 120

atctcctttc tcttactgaa tgaatgaatc attattggct aaaaaaaaaa aaaacaaaaa 180

aaaaaaaaaa aacaaataca aaaaaaaaca aacattcaaa caaaaaaaaaa gcgagccggc 240

cactctaaaa gaatccaact tacttaccct ttcttgctac attgtacctc tttt 294

<210> 12377
 <211> 261
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-A11

<400> 12377

tattcccact ctaccactc atcctaagaa aaatatatca ctatctccta ccttttttat 60
ctattttttt tatttttttt tatatgattt tttttaaaatt tttgtccccc tttttttttt 120
tatttttttt tttctttttc atatttttat tctttttatt cttatttctt ctttttcctt 180
tctttttata ttttttcttt ttcttttcat tattatatta tatttcttcc tatataattt 240
ttcatttttt tatattttatt t 261

<210> 12378

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-G2

<400> 12378

cccagctctt caaccatata ggcttcaaca agcaatcgca gcaagcaacg tacctttgtc 60
gcccttggtg tttcaacaat cgccagccct atctttggtg cagtcattgg taaaaccat 120
cagggcacia cagctgcagc aactcgtgct acctctgac aaccaagtag ctctggcaaa 180
cctttctccc tactctcagc aacaacaatt tcttccattc aaccaactgt ctacactgaa 240
ccctgctgct tatttgcagc aacaactatt accatttagc cagctagcta ctgcctactc 300
tcagcaacia caacttcttc catttaacca attggccgca ctgaaccccg ctgcttattt 360
gcagcagcaa atactactac catttagcca gctagctgca gcaaaccgtg cttccttctt 420
gacacaacia c 431

<210> 12379

<211> 270

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-E2

<400> 12379

cggacgcgtg ggtgctggca tgcatttttt cccgccctgg acagtgtggg cgttctgggg 60
ggttcatcct tgagggtaaa gagcttgagt tctacatgaa gaagctacag aggaagaagg 120

gcaagagcgc tgtagcttag agcattctca tggattgtct tgcaccgaaa tgtgtgtcct 180
 gatgagtaca ctttttttgg ttagtcgtct caagttcaga gcgttatgcc atgtattcag 240
 acctgattag tacactcttt tctaaaagcg 270

<210> 12380
 <211> 172
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-012-Q1-K1-E3
 <400> 12380

taagaaaaaa aaaaaaaaaa aaaaaaaaat aaaaaaaaaa aaaaaaaaaa aagagaaaaa 60
 ggaaaattta aaaaagggcc ttccctctta tagcttccaa tcttactttc ccttacatac 120
 aacttcatac ctcttctata gtatcaccta aatccaattc actgcccttc gt 172

<210> 12381
 <211> 318
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-012-Q1-K1-E4
 <400> 12381

gtccggaatc ccagcaggca tgtcggcgag tacggcagga agaccgaata ccaagcctta 60
 gagaatctcg ggacgggaac gggacaggac cccaaaatct cagatccttc ctgcccggcc 120
 gcccggtgcc gtcgacgcgt cgttcttgcc ggccgcgccc cacctccgcc ctctcctcct 180
 ccagggggat cggatacgcc acagtctgcg cgatgggtgct gtgggtcttc ggctactgat 240
 ccctcatctg gaaccccgcc ttcaactatt tctacaatat cctcggctat atcaatggct 300
 acaagcgca ctttaatc 318

<210> 12382
 <211> 279
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-012-Q1-K1-E8
 <400> 12382

ggcgggttctg gcggtggtgg tggcttcggc gctggcggct acggtggtgg cttcggggggc 60
gccttgggga acggaggcgc cgctggtggt tttgatggag aagctggcaa cggcggcggt 120
ggaggaggaa acggtggcgg tgacggcgct ggtggtggtt acggcagctc cggtgctggc 180
gatgagcttc atggcgatc tggtagtggc gacggaggcg aggctgggta taatggcaag 240
ggaccctcca gcggtggact ctggagcaag cgtggccat 279

<210> 12383
<211> 307
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-012-Q1-K1-F1
<400> 12383

caccagttac ttcaatgggc ttcgaacatc cagccgtgca agcctacagg cgtacaactg 60
gcgcttgccg cgagcgcctt acaacaacca attgcccatt tgcaacaaca atccttggca 120
catctaacc tacaaccat tgcaacgcaa caacaacaac aacagtttct gccatcactg 180
agccacctag ccgtggtgaa ccctgtcacc tacttgcaac agcagctgct tgcaccaac 240
ccacttgctc tggcgaacgt aactgcatac aatcaacaac aacatctgca acagtttatg 300
ctagtgc 307

<210> 12384
<211> 338
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-012-Q1-K1-F3
<400> 12384

cattcagcca gccagctgct gcctacccc agcaatttct tccattcaac gaactagcgg 60
cattgaactc tcctgcctat gtacagcagc aacaactact accattcagc cagctagctg 120
ctgtgagccc tgctgccttc ttgacacagc aacaattggt gtcgttctac ctgcacgctg 180
cgctaactg tggcaccctc ttacaactgc aacaattggt gccattcaac caacttgctt 240
tgacaaacc agcagcgttc taccaacaac ccatcattgg tggcgccctc ttttagattg 300
ctaagtgtt atagttcaat aataaagttt ttttgatg 338

<210> 12385
 <211> 398
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-012-Q1-K1-F5

<400> 12385

ggaaaacatt cactgactgt tttaactgct tgccagtgtc agcattgata gacgaaagga 60
 tcctctgtat gcatgggtgt ctatctccag agttgaacaa gctcgaacaa atacttaatc 120
 tgagtcgccc cacagacgtg cctgatactg gattgctctg tgaccttctt tggctctgatc 180
 cttctaataga agcaacagga tggggccataa atgatcgagg tgtttcatat acatttggtc 240
 ctgataaagt ttctgaattc cttgataagc atgatttgga cctcatctgc cgagcccatc 300
 aggttgctga aaaatgatat gagnttttcg ctagccggca aactgttacc atgttttcaa 360
 gcccttacta ctggggagaa tttgataacg cttgtgcc 398

<210> 12386
 <211> 268
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-F7

<400> 12386

gcgacgcgtt cgacgactcg tgcgaacact cgttcggcta ccgaactgaa ttatgttagt 60
 actaagagtg aaaaggggga tgtggatgat cctgacaatg caagcaatgg ataactctctg 120
 cagacgcata atctgctacc gacagtaaat ggtgatatgg acgagcaatt agaataatgct 180
 acaggaagtg ctgcaagttg tgaagcacia gtgtatgcat atatgtgtct caaggaaagt 240
 ttgaaccaat gcaattcatg gaatgaat 268

<210> 12387
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-F8

<400> 12387

cccacgcgtc cgcagaaaca cacctagcga agcgactag caacgaccta acaacaaggg 60
 ctaccaggat attatccctc ttgcgcttc ttgccctttt tgtgagcgca acaaatgcgt 120
 tcattattcc ccaatgctca cttgctccta gtgccattat tccacagttc ctccctccag 180
 ttacttcaat gggcttcgaa caccatctg tgcaagccta caggctacaa caagcgcttg 240
 eggcgagcgt cttacaacaa ccaattgccc aattacaaca acaatccttg gcacatctaa 300
 ccatacaaac catcgcaacg caacagcaac aacaatttct accagcacta agccaactag 360
 ctgtggtgaa ccctgtcgcc tacttgcaac agcagttgct tgcacccaac ccacttgctc 420
 tgg 423

<210> 12388

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-G1

<400> 12388

gagccaacta gctgtggtga accctgtcgc ctacttgcaa cagcagttgg gggcatccga 60
 ccacttgct ctggcaaaca tagttgcata ccaacaacaa caacaattgc aacagtttct 120
 accagcgctc agtcaactag ccattggtgaa ccctgccgcc tacctacaac agcaacaact 180
 gatttcattc agccctctcg ctgtggttaa tgcacctaca tacctgcaac aacagttgct 240
 gcaacagatt gta 253

<210> 12389

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-G10

<400> 12389

cagcaaggca cctaagatcc aacggcttgt gacacccttg accctccaga ggaagcgggc 60
 tagaatcgct gacaagaaga agaggataac taagaagaag tctgaggctg ctgagtacca 120
 gaagcttctt gccagaggc tgaaggaaca gagagaccgc cggagcgaga gcttggccaa 180
 gaggaggtcc aagctttctg ccgccgccaa ggcttctgct gccacctctg cttaagaatg 240

ttcagtgttt tgggatcttt gtaaggctta tcttgtaacg gcaaaagtgt tttgggatct 300
 ttgtaagctc catagttcac atcacttaag tgtttctgct agtagtggat ccacaactat 360
 ttgcttgctt ggctctgagt cacacctgac cgatcaatgc aggtgtcact ttgctttta 419

<210> 12390
 <211> 78
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-012-Q1-K1-G12
 <400> 12390

cccacgcgtc cgattttgtg tagtttttta ccacaaaaaa aaaaaaaaaa agaaaacgaa 60
 aatttaaaaa aataccaa 78

<210> 12391
 <211> 227
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-012-Q1-K1-C5
 <400> 12391

cggacgcgtg gggaagccga tgctaccgcc tacgccgacg ctggtggcga ccagtgcgag 60
 cctggctgtt ccacggcac cgaggacgac gccgacgccg actgccagcg cgcgacgag 120
 cagcagcatg gccgccacca ccaccaaccc aggcagggcg gcggggccctc gtgcagtgtc 180
 atgtgaacta gcatacccat gcatgcatgt ttggtggtgt cgctctc 227

<210> 12392
 <211> 416
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-012-Q1-K1-C6
 <400> 12392

accatccagg tgctggtggg ctactgtgcc gtgtacatat tcatgcagac gttcatggtc 60
 ccagtggcca ttttcatgtc cctgcttgcc gggggccctct ttgggcagct cggtggtcta 120
 gccctggtga tctttgctgc cactgccggt gcttcttctt gttatttctt gtccaagcta 180

gtagggaaac cactggtctt ctcgttggtg ccagacaagc tcacgttctt ccaaaagcag 240
 gttgcaaaaa gaagagagaa gctgctgaat tacatgcttt tcttgagagt cactccaaca 300
 ctgccaata ctttcatcaa tttttcttca cctatagtgg gtgtgccata ccatactttc 360
 ttctttgcga cggccattgg cctcgtacca gctgcctatg tgactgtcaa ggctgg 416

<210> 12393
 <211> 429
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-012-Q1-K1-C7
 <400> 12393

gcaattcatg tctgctttgc aagcatttan gcggcgtgtt gcatactcca atgttgggga 60
 tgatcatatt gttgggtgga gaacatcatc tatcagaaaa gattctgaac tacccaagtg 120
 ggttgattca accaacaaga ttaccgcga tattgtatat gaggaactat ccaaagcaga 180
 agtcctgat caatgtgctg acacaagata actgcacacc tagagaacac cttttacaag 240
 gacttaagcg cgtttccatg ggaaaagggtg gatgttaagt ttcacaatag taaagtaaga 300
 tctgcagcac atagtgtgat tcaggtaaaa gatcctgtga tgcatagcga aggtgccgac 360
 gtcatacagc atatgattga ccaatttatt ctatagtaaa agccctggtc tttggaaaca 420
 gacctggac 429

<210> 12394
 <211> 416
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-012-Q1-K1-D12
 <400> 12394

gaaagacata ggcttgcgga aacactggac tttgagatta agcgtggtggc tgctgggaaa 60
 gaaggcaatt tgcgtgcatt gctatcaact ttacaatatg ttctttggcc agaattgtggg 120
 tggcaacctg tatccctcac tgatttgatc actgctgctg ctgttaaaaa agtgtacaga 180
 aaagcaacac tgtgtatcca tctgacaag gtgcagcaaa aggggtgcaaa tctccaacag 240

aaatatatcg ctgagaaggt tttgatctc cttaaggagg cgtggaacaa actcaactct 300
 gaagagctct tctaaacagc ctcacgactg aacatagcgt cgcccctcag ggtctgcaca 360
 aggtactctc ggaagaaact cacaagctgg agtggcttga ggttggtcgg ggggaa 416

<210> 12395
 <211> 372
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-D2

<400> 12395

cggactcgtg ggctggtctc catctctatc agagagctcc gtccgtcacg ttcccctggt 60
 tccattcatg gagaatatgc tccacctagc cccgtcgtcg tcccaggcat tggccttgga 120

ccgctcctcc gtcttctcgc gtgagcacgt gccgccggcc gtctccgctg tcacctccct 180
 gccagttatc gacatgtctc gcagccgcga cgaggtcgcg cgcgctatcc tcgactccgg 240
 catggagtcc ggcttcttcc tggtggtgga gcacagcatc ccagatgagg tgatgcgcga 300
 cattctggag gtgtgcgagg agttcttcca gctgccggcg gctagcaagg cgtacatgta 360
 cttggaggac ag 372

<210> 12396
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-D4

<400> 12396

aaagatttgt gagggtgatc cgcgctgaga agagatggct aagatcgcgg gggcggcgtc 60
 agctgcgctg tgcttcgcgg ccctggtggc cgtggccgtc tgccaaggcg aggtcgagcg 120
 gcagaggctc agggacctgc agtgctggca ggaggccag gagagcccgc tcgacgcgtg 180
 ccgccaggtc ctcgaccggc agctaaccgg cggcggcggc ggcggcgggc ttggcccgtt 240
 ccggtggggc accgggctcc ggatgcggtg ctgccagcag ctccagtacg tgagccgcga 300
 gtgccgctgc gccgccatcc ggagcatggt caggggctac gaggaagcca tgccgccgct 360
 ggagaaaggc tggtggccat gggggcgga gcagcagccg ccgtcgctag gaggaaggag 420

gaggaca

<210> 12397
 <211> 398
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-012-Q1-K1-D7

 <400> 12397

agaagccgtg gattcgggtt tgtgaccatg tcttcggctg aagagggtga ggtggctggt 60
 gaccagttta atggctatgt gcttgatgga agaagtttga gggatgaactc tgggccgnca 120
 ccaccagag atcggtcac accgtcaccg *caaagaccca ggggtgatgc caacagggtc 180

 tacgtgggta acctttcctg gggagttgac aattcagctc tcgcaaacct gttcagtga 240
 caaggtgagg tactggaagc aaggatcatc tatgacaggg agagtggaag gtcaaggggg 300
 tttggttttg tcacgtacgg ttccgccgta gaggttgaga atgcaatata taatctcgat 360
 ggcgctgact tggacggctg acagatccgt gttacggt 398

<210> 12398
 <211> 168
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-012-Q1-K1-E1

 <400> 12398

ccgacgcgtt cgtggacgcg tgggaggact cgtgggggca ggtcgtcaag ggggtctgga 60
 agacttaaga ccgagccgtg cgggggctcg ggacgggaac tggacaggac cccaaaatct 120
 cagatccttc ctgcccgcgc gcccgcgccc gtcgactcgt cgttcttg 168

<210> 12399
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-012-Q1-K1-E10

 <400> 12399

cggacgcgtg ggctttggcg gatcgaatga aggaaggaag gaggagatgg ggggctgcat 60

ggatgtgcac aaaaaccggt ggatcgaaga gtggaacgcc ggccgcgaga acctcgagtt 120
 caatttcgc tggacccgcc gcagcctcgc cgtcgtcggc ctcttcggcc tcgctgtccc 180
 catcctcgtc tacaagggca tcgtccgcga attccatatg caggacgagg atgcaggccg 240
 gccatacagg aagttcctgt aagcggcgtc cagggccgca ggagacgtcg atccctcgac 300
 cggggctgcg aggaggggag tttccattca gtttgtgtcg gtattgtttt agtctgaatc 360
 tgatggagca gtttgaatg ctgaactatt gtgcctgatc caaaatg 407

<210> 12400
 <211> 382
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-A5

<400> 12400

cggacgcgtg ggcggacgcg tgggtggaga agccataagg aaatatgggg ttttccatga 60
 atggacgttc tggaccatgg taccggtatt aatgaatgcc gtgggtggaa ttcttggttg 120
 tcttgtcaca acttacgcag gtggtattag aaagggtttt gttatagtct cagctctcct 180
 tgtaactgca ctgctacaat tcgggtatga tgggaagcca ccatcactct actgcctgat 240
 ggcattacca cttgttgcca caagcatatt catctaccat aagtatccat atgtggataa 300
 gaagaagaaa gtctgatgca cataattgtc agagatggga agtatcatca gcatgatgta 360
 atgctaacct tattttgtcc ac 382

<210> 12401
 <211> 426
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-012-Q1-K1-A7

<400> 12401

accaggccga aggaaaacaa tcctgaaacc aagccatggg tctgcaggag gaatttgagg 60
 agcatgcgga gaaggcaaag accttgacctg agaacacgag caatgagaac aagctgatcc 120
 tatacgggct ctacaagcaa gccacggttg gagatgtgaa tcccaatcgt ccggccatat 180

tctacaaaa ggacagggcc aagtgggatg cctggaaggc tgttgaaggc aaatcgaagg 240
atgaggcgat gaatgactac atcaccaagg tgaagcagct ccaggaggaa gctgccgcct 300
cttaaaagtc tcttaatagt gttgccaaac agctatttgt cagatgagct ttgtgccatt 360
tcctcattag aagtatatca ttcgatccat tggggatctg tgaaccatgt nacctgttat 420
gtaact 426

<210> 12402
<211> 408
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-012-Q1-K1-B10
<400> 12402

accagatcgt cgcttggttg aaggagtact ttgacggcaa attgacgccg tgcagggagt 60
ctgagcctat tcctgaggtc aacaatgagc ctgttaaggt ggttgtcgct gacaacgtcc 120
acgacttcgt cttcaaactct ggcaaaaatg tccttattga attctatgcc ccctggtgcg 180
gacactgcaa gaagctggcg cccatcttgg acgaggcagc caccactctc cagagcgacg 240
aggaagtcgt gattgctaag atggacgcga ctgccaatga cgttcccagt gagtttgacg 300
tccaaggcta cccgaccttg tacttcgtga ccccgagcgg gaaggtgaca tcctacgaca 360
gcggcaggac ggcgagcagc atcgtcgact tcatcaagaa gagcaagg 408

<210> 12403
<211> 390
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-012-Q1-K1-B11
<400> 12403

gagaccacca ccgctctgcc tcgcctcgcc tcacctcacc tcacctcacc tggccgagta 60
gggttttgta ccgccgtgga tctcgccgtc cccgccatgg acgtctcgca cgcgggatcc 120
tccgtcgccg gcgaggctcc gaccaccggg gagcaccgga tggggactac catcgtcggg 180
gtctgctacg aaggcggcgt cgtcctgggc gccgattcca ggaccagcac tggaatgtat 240
gtagccaacc gtgcttcaga caagattact caactgacag acaatgtgta tgtctgtcgc 300

tctggatctg ctgctgatac acaagtcatt tcggattatg tacgctatct ccttcaccaa 360
 cacacaatcc agcttggaca accagctacc 390

<210> 12404
 <211> 420
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-012-Q1-K1-B12

<400> 12404

ggcgatggat gttctccgca atgtggtcca ccagcaaaac ccaaactcc ggaccagtca 60
 gcttgccgca ttatcactga ccgaaggcat tatgtcctaa cttgaaggcc ataacaaact 120
 atcttcagtt tccaactcag tgcgggtggt tccagagggt gtctggcaca tgacagtatt 180
 gttccttcga tactatgggt ggacttgtga atgttggttc catactggat gttaggtttt 240
 atttgcgccc tacggtgacc tgccgttaag gcaaagaact tatttgcaag tctgagcact 300
 attttggggg gtgggggtggg ggggtgctgt gttntataa ctgtcttttt tncctagtt 360
 ggaagttttc ttactcaatt gaatgaacca gggaacttat tgcatactat caaatgggtt 420

<210> 12405
 <211> 170
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-B5

<400> 12405

ccacgcgtcc gctgaactga ggacgatgat ccagaaccga tccagctatc atcaagtgcc 60
 gcggcgacta cggcccatat tgtaccacgt gacgagagaa ctctcttcgt gactttctcc 120
 aacggatacc ccttcaccgc ggatgaactg tacgaattct ttatggggaa 170

<210> 12406
 <211> 318
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-B8

<400> 12406

caactagcac atagaaagca catagtgtac caacaatggc agccaaaata tttgcgtcct 60
 tatgctcctt ggtctttctg caagtgtgc taccgcgacc attttcccgc aatgctcaca 120
 agctcctata gcttcccttc ttccccgta cctctcacca gcggtgtctt cggtatgtga 180
 aaaccaatt cttcaaccct ataggatcca acaggcaatc gcagctggca tcttaccttt 240
 atcacccttg ttctccaac aatcatcagc cctattacag cagttacctt tgggtgcattt 300
 attgccacaa aacatcag 318

<210> 12407
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-C10

<400> 12407

caacaagcaa catagaaagt ggaatccagt agcaacaata gagcaacaat ggcgaccgag 60
 atattttccc tccttatgct ccttgctctt tctacatgtg ttgctaacgc gacaattttc 120
 cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaattata 180
 gcttcaatat gtgaaaaccc agctcttcaa ccatataggc ttcaacaagc aatcgcagca 240
 agcaacatac ctttatcgcc cttgttggtt caacaatcgc cagccctatc tttgggtgcag 300
 tcattggtac aaaccatcag ggcacaacag ctgcagcaac tcgtgctacc tctgatcaac 360
 caagtagctc tggcaaacct ttctccctac tctcagcaac aacaatttct tccattcaac 420
 caactgtcta cac 433

<210> 12408
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-C12

<400> 12408

ctgaaccccg ctgcttattt gcagcatcaa atactactac catttagcca ggtagctgca 60
 gcaagccggg cttgcttctt gacacaacaa cagttgctgc cgttctacca gcagtttgcg 120
 gctaaccccg caaccctctt acaactacaa caattgttgc cttttgtcca acttgctttg 180

acaaaccag cagcctccta ccaacaacac atcattggtg gtgccctctt ttagattgct 240
 tattagatgt aattcaataa taaagttttt tggatgatgt atgtggccaa ccagaaataa 300
 aaagttacat ttccagattc taaaaaaaaa aaaaataaaa aaaaaataaa taaaaaaaaa 360
 aaaaaaaaaa atataataaa aaataaaaat aaattaatat aaaaattata aaattttttt 420
 ttttt 425

<210> 12409
 <211> 342
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-012-Q1-K1-A4

<400> 12409
 gatggttcca aggttgggtg ctatggaaag cctgcaaag aagattttgg ggcagatagt 60
 gccactgga aacgggttgt aagtaaactg tatgtgaatg gcatgggaat tgactgggtcc 120
 aaagtgagaa atgtcatgga catgagagct gtctatggag gttttgctgc agctctgagg 180
 gaccaaagg tctgtgtcat gaatatcgtg ccgatcgatt caacagacac gctgcccac 240
 atctacgac gcggattgtt tgacatgtac catgactggt gcaagtcttt cagcacttac 300
 ccaaaaactt atgaccttct gaactcggac catctgttct ca 342

<210> 12410
 <211> 408
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-011-Q1-K1-H10

<400> 12410
 gatgattttt tggcctctct cccagagaat gactgccgat atgcgctgtg tgatttgcac 60
 ttggttactg ttgagaatgt gcagaaaagc aagattttct tcattgcctg gtccccatcg 120
 acatcccga tacgtgctaa gatgctgtac tccacgtcga aggaccgcat caagtacgag 180
 cttgacgggt tccactacga aatccaggct accgacccat cggagggtgga catcgagggt 240
 ctccggaagc gggctcactg aagctggttc tccttttgaa gggacctgtg aagggccgtg 300
 aaccttcagc cagatgcaaa ttcaattatc aacgatgaag ctcccgccgt ggtgtttgtt 360

aataagttcc tgtaagcata tcatttagtc gctatgcatg acactagc

408

<210> 12411
<211> 165
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-H11

<400> 12411

ctgttttttac acagcaacaa aaggtcccat ggctcccaga agaccatgaa ggttcggggtc 60

tatgatgtaa ttccttggtta tctgccaaatt atgtatggac tatggacatg tgttgcgctg 120

ttcaacttac tactacaaat aagtaatcga taatgttccc ttccc 165

<210> 12412
<211> 417
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-011-Q1-K1-H12

<400> 12412

cccgggtggac cgagcgtccg tacattcaca gttacaaatt gaaccttcat ctaaaaaactc 60

agcaccctga acacgggggaa naggaaaacg gtaagggtcgg tgcttctggt gggcagcatg 120

ctgcgaacga acacacttac cagtataact atgccgaggt tggcgagatt gcaccaaacc 180

cctaaaaggag caagacgaat catgggcaca aggtccactc atccaaagcc tacaatgcc 240

aggtttcgag agcaatgcct tctgacattg gcgtcaggaa ccagtggcca ggtaaagcta 300

cgtaccaaga tgatagtga gagacggaag aagatggagg caacaacatt gaagatggct 360

ggagatatgg caacaatgat gacgatgagg aaacaccaga tgaagattga cctttat 417

<210> 12413
<211> 234
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-011-Q1-K1-H2

<400> 12413

ccctctgcga ccacgcgtcc gaaaanaaaa aggttttttaa aaaattttaa aaaaataaaa 60
 aaaaaaaaaa aaaaaagaaa aatttcgaaa attataaaaa ccaagaaaac caaaacaaac 120
 aaaaaaaaaac caccacaaca aaaccaaaca accacctata aaaaaaccaa aacaaaaaaa 180
 attaaaaaaaa acccacataa aaaaaaaaact gcccttccca aaaccaaacc cccc 234

<210> 12414
 <211> 438
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-011-Q1-K1-H3
 <400> 12414

cccacgcgtc cgcccacgcy tccgcgcaaa ttgcaccaag aaatccatcg agaggccggc 60
 gacaggggaa ttaatggcgt cgctgtctag cagcagccac cgccgcctca tcctcgagc 120
 cgccgtcctg ctctccgtgc tcgcgggtgc cagcgccagc gccgggacct cctgcgtgcc 180
 ggggtggggc atcccgcaaca acccgctccc gagctgccgc tggtagctga ccagccggac 240
 ctgcggcatc gggccgcgcc tcccgtaggc ggagctgaag aggagatgct gccgggagct 300
 ggcggacatc ccggcgtagt gccggtgcac ggcgctgagc atcctcatgg acggcgcgat 360
 cccgccgggc ccggacgcgc agctggaggg ccgcctagag gacctgccgg gctgcccgcg 420
 ggaggtgcag agggggatt 438

<210> 12415
 <211> 439
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-011-Q1-K1-H5
 <400> 12415

cttctccaga aaggttatgg tttgggatct ggtatttctc tgttcatggc taccaatgtc 60
 tgtgagaata tcatctggaa ggcatttagc ccacaacca tcaacagtgg tcgtggtgct 120
 gaattcgaag gggctgtcat tgcaactgttc catctgttga ttacgagAAC cgataaagtc 180
 cgtgctcttc gtgaggcttt ctaccgccag aaccttccaa atgtgaccaa tttgcttgcc 240
 actgtcttgg tattctcat agttatctat ttccaaggct tccgtgttgt gcttccagtg 300

agatcaaaga atgctcgtgg ccagcaaggc tcatatccaa ttaagctggt ctacacttca 360
aacatgccc a cattcttca ctctgcgctg attaccaacc tctattttat atcccagctt 420
ctctacagga agtacagtg 439

<210> 12416
<211> 430
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-011-Q1-K1-H6

<400> 12416

gcacagcaca tagaagtga atccatacca ccaccgaacc acggattgcc tacganaaat 60
tggtcccttc ttaccacct tggtctttc tcaatggtg ctaaccctaa aattttcctt 120
aaaggtcaca agaattctcat atagttccct tttttcccat atacctcaca taaatgatct 180
ctacagtttg aaaaccccc tctcttcagc cctataggct ccaacaagca atcgagcaa 240
gcaacatacc tttatcacc ttgttggttc aacaatcgcc agccctatct ttggtgcagt 300
cattggtaca aaccatcagg gcacagcagc tgcagcaact cgtgctacct gtgatcaacc 360
aagtagctct ggcaaacctt tctccctact ctcagcaaca acaatttctt ccattcaacc 420
aactgtctac 430

<210> 12417
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-H7

<400> 12417

gccttcttct tcaaggtgct caagcaggtg caccggaca ttggtatgtc gtccaagggc 60
atgtccatca tgaactcctt catcaacgac atcttcgaga agctggctgc cgaggccgcc 120
aagctcgccc gctacaacaa gaagcccacc ataactccc gggagatcca gacttcggtg 180
cgctcgtcc ttcttgccga gctcgccaag cagccgtct cagagggcac caagccggtt 240
accaagtta ctctcttta gatcgccgcc gcacggagcg acggctctgt ttcgtttcct 300

cgtactttta ggccagtgc aataggttgc tcgaggaaca atgtagtggtg gaaatttcta 360
 atatattcca aattgtgctg 380

<210> 12418
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-H8

<400> 12418

cccacgcgtc cgatacaaga cagcctatta ttcattttat ctgccggggg catgtgggct 60
 gctgctctct ggcgagaatt tggacaatta tggtagtgta gagaacatcc ttgttgaaat 120
 gggaacatac tttcaagtcc aggatgacta tctggattgt tatggtgatc ctgaatttat 180
 cggaagatt ggaacggaca ttgaagatta caagtgtca tggctagtgt tgcaagccct 240
 tgagcgtgct gatgagagcc aaaagcgcat tctatttgaa aattatggca agaaagatcc 300
 agcctgtgtg gcaaaagtga agaacctcta caaagaactt gacctagagg cggtatttca 360
 ggagtacgag aatgagagct acaagaagct gattgcagac attgaagccc agccaagcat 420
 tgcggttcag aaagtgtga aat 443

<210> 12419
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-H9

<400> 12419

ggtcctccaa caatcatcag ccctattaca tcagttacct ttggtgcatt tattggggca 60
 aagcatcagg gcacaacaac tacaacaact tgtgctagca aaccttgctg cctactctca 120
 gcaacagcag tttcttccat tcaaccaact agctgcattg aactctgctt cttatttgca 180
 acaacaacaa ctaccattca gccagctacc tgctgcctac cccagcaat ttcttccatt 240
 caaccaactg gcagcattga actctcctgc ttatttacag cagcaacaac tactaccatt 300
 cagccagcta gctgggtgtga gcctgtctac cttcttgata caaccacagt tggtgccgtt 360
 ctaccagcac gctgcgccta acgcttgcac c 391

<210> 12420
 <211> 360
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-A1

<400> 12420

cgcggtacgcg ggcgcggtggg cggacgcgtg ggtgggttaag ccatatggaa atatgggggtt 60
 ttccatgaat ggtcgttctg gtccatggta ccggtattaa tgaatgccgt ggggtggaatt 120
 cttgttggtc ttgtcacaac ttacgcaggt ggtattagaa agggttttgt tatagtctca 180
 gctctccttg taactgcact gctacaattc gtgtatgatg ggaagccacc atcactctac 240
 tgcctgatgg cattaccact tgttgcgaca agcatattca tctaccataa gtatccatat 300
 gtggataaga agaagaaagt ctgatgcaca taattgtcag agatgggaag tatcatcagc 360

<210> 12421
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-A10

<400> 12421

cccattcgag ccacgcgtcc gcgttcagga ttatacaact caccaatcca tgcgcactac 60
 caacaacctt acaacaagtg ctggtaatat attagccctg cttgcgcttc ttgcccttat 120
 tgtgagcgca acacatgcgt tcattattcc acaatgctca cttgctccta gtgccatcat 180
 tacacaggtc ctctcaccag ttacttcaat gggcttcgaa cacctagctg tgcaagccaa 240
 catgcaacaa caagcgcttg cggcgagcgt cttacaacaa ccaattgccc aattgcaaca 300
 acaatccttg ccacatctaa caatacaagc catcacaacg caacagcaac aacagttcct 360
 accagcactg agccacctag ccatggtgaa ccctgccgtc tacttgcaa 409

<210> 12422
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-A11

<400> 12422

attcaaaaac acaccaagcg aagcgacta gcaacgacct aacaccaatg gcgaccagga 60
tattagccct ccttgcgctt cttgcccttt tagtgagcgc aacaaatgcg ttcattattc 120
cacagtgtc acttgctcct agtgccagta ttccacagtt cctcccacca gttacttcaa 180
tgggcttcga acatccagcc gtgcaagcct acaggctaca actagcgctt gcggcgagcg 240
ccttacaaca accaattgcc caattgcaac aacaatcctt ggcacatcta accctacaaa 300
ccattgcaac gcaacaacaa caacaacagt ttctgccatc actgagccac ctagccgtgg 360
tgaaccctgt cacctacttg caacagcagc tgcttgcac caaccactt gctctggcga 420
acgt 424

<210> 12423

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-A3

<400> 12423

ctgctatgtt tgctggaccg cagttcatte ccattggtgg aaacatcatg ggatcatgcgt 60
caaccacaag gcttgctctt cgcaaggggc gaggggagga acggatctgt aaagtaataa 120
gctctccctg ccttgctgaa gccgaagcaa ggtttcagtt agcttctgaa ggtattgcag 180
atgttaagga ttgagaccat acctgcttta caggcatctt cagatccatt ggtctgctat 240
ttgctttgtc attccttggg ccaactttcg tgttacctca ccttgatgta caaaacgggt 300
tcgttcacat atgtgaatgc acgcctgtta ctgatttaag cgtcctgttg taaataaaac 360
gatgcctgtt gccctgttgt gtgttgcacg taatcgacaa ctctacatat cacaaaataa 420
aaa 423

<210> 12424

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-011-Q1-K1-H1

<400> 12424

cccacgcgtc cgcggaacgc tgggtgtacg ccaacgaggt gcccaagacc gcggagagct 60
tccgcgggct gtgcacgggc gagaagggcg tgggcaagtc cgggaagccg ctccactaca 120
agggctccac cttccacgc gtcacccccg agttcatgtg ccagggcggc gacttcaccc 180
gcggcaacgg caccggcggc gagtccatct acggcgagaa gttccccgac gagaagttcg 240
tgcgcaagca caccgncccc ggtgtgctct ccatggccaa cgccggggccc aacaccaacg 300
gtccccagtt cttcatctgc accgtcgca ccccttggt cgacggcaag cagtcgtct 360
tcggccaggt cgtcgagggc atggacgtcg tcaaggccat cgagaagggtg ggcacccgca 420
acggc 425

<210> 12425
<211> 444
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-011-Q1-K1-F3

<400> 12425

ggagattcag atccacacac atccgcatcc ctctctctc ggtttcctct cccaccagga 60
acccccggat cgcagcgatc tccgccgcgc cctctcttg gattccgcgc gacaaagtca 120
ggcgtagagg ctccaggagg aggagggagg cgcagcaggg cgggtggggg agatgttct 180
ctgggactgg ttctacgggg tgctggcctc cctcggcctg tggcagaagg aggccaagat 240
cctcttcctt ggctcgaca acgccggcaa gaccacgtg ctccacatgc tcaaggacga 300
gcggttggtg cagcaccagc cgacgcagca cccgacgtcg gaggagctca gcatcggcaa 360
gatcaagttc aaggcggtcg acctcggcgg ccaccagatc gcgcgccgcg tgtggaagga 420
ttactacgca naggttgatg ctgt 444

<210> 12426
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-F4

<400> 12426

cagaaacaca cctagcgaag cgcactatca acgacctaac aacaatggct tccaagagat	60
tatccccgct tgcgcttctt gccctttttg tgagtgaac aaatgcgttc attattccac	120
aatgctcact tgctccgagt gccattattc cacagttcct cctccagtt acttcaatgg	180
gcttcgaaca cccagctgtg caagcctata ggctacaaca agcgcttgcg gcgagcgtct	240
tagaacaacc aattgccccaa ttacaacaac aatccttggc acatctaacc atacaaacca	300
tcgcaacgca gcagcaacaa gcaactgagcc acctagccgt ggtgaaccct atcgctact	360
tgcaacaaca gctgcttgca tccaaccac ttgctttggc aaacgtagct gcataccaac	420
aacaacaaca gttgcaacag tttct	445

<210> 12427

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-F8

<400> 12427

cggacgcgtg ggcggaacgcg tgggctggct ctgtcagctg ccagcgcgtc tgcaatgcag	60
atgccctgcc cctgcgcggg gctgcagggc ttgtacggcg ctggcgccgg cctgacgacg	120
atgatgggcg ccggcggggt gtaccctac gcggagtacc tgaggcagcc gcagtgcagc	180
ccgctggcgg cggcgccta ctacgccggg tgtgggcaga cgagcgccat gtaccagccg	240
ctccggcaac agtgtgccca gcagcagatg aggatgatgg acgtgcagtc cgtcgcgcag	300
cagctgcaga tgatgatgca gcttgagcgt gccgctgccg ccagcagcag cctgtacgag	360
ccagctctga tgcagcagca gcagcagctg ttggcagctc agggctctcaa ccccatggcc	420
atgatgatgg ccagaacat gccg	444

<210> 12428

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-F9

<400> 12428

cccacgcgtc cgcccacgcg tccgcagcta gctagcagat cgtttcgagt gaagatggaa	60
---	----

aggtgtagag agatggaaag gatgagtctg tgcctgcagt actgggtgga ggagcacaag 120
 ctctcaacca tcggagccgt gtgggcgacg gcggtgggcg cgtcgggtggc gtacagccgg 180
 cggcggggcg cggcggggc gacgggcatg cgcctcatcc acgccaggat gcacgcgcag 240
 ggcctcacgc tcgccgtcct cgggggagcc gcgctcgcgc accactacca cggcaagagc 300
 accaagcccg ggaagaggca gcagcaggag gacctggact acggcttcta ctgcgagctg 360
 ccgccggcca ccgacgccga cggcaacgag aacgagcgcct ggagctggta gagcatgc 418

<210> 12429
 <211> 259
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-G10

<400> 12429
 acttatcact ttcccttctt ccttcttact tcaacaaca ggatttggtt tatatcaacg 60
 ttttcttaca aacatatctc ctttctttaa acatcaacta ttacttacat ttacctcac 120
 aatttcactc aaccattaac accttatccc tcaaactaca atttctacca ttatcatcca 180
 ccctatttaa taaacaatat aatctttata ctacaacaac tatttcataa tatcaaacca 240
 tacttctatt tactaatat 259

<210> 12430
 <211> 360
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-G11

<400> 12430
 cgcaaattgc accaagaaat ccatcgagag gccgtcgaca ggggaattaa tggcgtggtc 60
 gtgtagcagc agccaccgcc gcctcatcct cgcagccgcc gtcctgctct ccgtgctcgc 120
 ggctgccagc gccagcgccg ggacctcctg cgtgccgggg tgggccatcc cgcacaaccc 180
 gctcccagc tgccgctggt acgtgaccag ccggacctgc ggcatcgggc cgcgcctccc 240
 gtggccggag ctgaagagga gatgctgccg ggagctggcg gacatcccgg cgtactgccg 300
 gtgcacggcg ctgagcatcc tcatggacgg cgcgatcccc ccggggcccg acgcgcagct 360

<210> 12431
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-G2

<400> 12431

cggaacgctg ggcaagcgtg gaagacggcg agctatatgg cgtgcaatcg cggcgtggag 60
gagcaggagg accccagcgc ggcgtctgca gcccagctc cggcggctgt ggctagggcg 120
agggcggcgc ggcctccgag gccaaaggagc cgcaaggggc tcggcgtgcg gcacctgctg 180
aagccctgcc gattccttgc agctgtccag agggcgaatg ccagggtgag ggaagcgggg 240
gaggcgacct tcgtggcagc gcttgcgggc gcccaaaaag agagcgagag ggagaacgag 300
gtggtggccg atgtatgcyg cgggtggaag agtgaggatg gaagtttaaa ttgtggatac 360
tcaagcatta gaggcagaag ggtaaaccatg gaagacttct atgacataaa atcttctaga 420
gttgatgata agcaaataaa tttttttgga 450

<210> 12432
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-G3

<400> 12432

cccacgcgtc cgctcaaagg ctcatgcggc aagtcgctcg cgccgttccc gcaagggctg 60
ttctactgca acgccctcgg agggctcaag tgctacgaga accccaagca caaggtcacc 120
gctgtccccg ccgacgaaga agagatctgc ggtgccactt tcaaggtggt ggaagggctc 180
actgtcctga cggcgtgca ctgatctatc atcatcaggc ggaggcgatg cgatgatgat 240
gcagaacttt gtacatgcgt tgggtggatg tgggtgaaca tagtggctgc caacaagtca 300
tgctcatgca aaccgatgaa tctatctctg tatcatcgat ctcggttgct tgctagtcca 360
gactccagac atggctatat atatatagct ggtgctaata aataggagta taatcgatcat 420
atcgatcggc tgcgtgtgga atg 443

<210> 12433

<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-G4

<400> 12433

aaatactgtg atgtctaaaa gaaagttgaa tcgacttggt acagagaact gggtagaggg 60
gtgggatgat ccccgcttgt tgacactggc tggactccgg cggcggggag tatcatcaac 120
cgcaataaat tcctttatcc gtggaatcgg gataacaaga agtgacaaca gcttaattcg 180
tgttgatcgt ctagaatacc acatcaggga agagcttaac aaaacagccc ctggaacctat 240
ggttgttttg cgtcctctaa aggtggtaat aactaacttg gaagaaggaa aagtactaga 300
ccttgatggg aaaatgtggc cagatgcttc tgatactgat gcttcctctc actataagct 360
tccgtttctca agaactgtct acattgagaa aactgatttt cgccttaagg actcaaaaga 420
ctactatggg ctggcccctg gtaa 444

<210> 12434
<211> 180
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-G5

<400> 12434

tcccactcgt ccgaaaaaaaa aaaaaaaata aaaaaaaaaa aaaaaaaaaa gaaaaaatag 60
aaaaattaaa aaaaataaat acattcataa aataacaaaa aatacaaaaa aatacattca 120
tatataatat ctacttaaatt ttaaatctca ttaaaacttaa atctttttca accttacttt 180

<210> 12435
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-G9

<400> 12435

ccttcacatt gactgttata atggcaacta atcgggcaga cactctagat cctgctgtgt 60
tgggtcctgg tagacttgac aggaaaattg agttccctct gccagaccgg cgtcagaaga 120

ggcttgtttt tcaagtttgc actgccaaaa tgaacctcat cgctcagggtt cattttggca 180
 gtgcaaaactt gaacctgagc gatgagggtt atttggaaga ttatgtttcc agaccggata 240
 agatcagtgc tgctgatatt gctgctatct gccaaaggagc tggcatgcat gctgtccgca 300
 aaaaccgata tgtcatcctc cccaaggact ttgaaaaggg ctaccgaacc aacgtgaaga 360
 agccccgagac agactttgat ttctacaaat gagtcaacc 399

<210> 12436
 <211> 394
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-011-Q1-K1-F12
 <400> 12436

gcaggctatc cgccccgtca gcaagaagat ggctttcgtc gtgctgcgcc agagcaggag 60
 cagcgtgcag tgcgtgctcg ttgccagcgc cgacgccggc gtcagcacgc aaatggtgcg 120
 cttcgccacc gccttaagca aggagtccat cgtcgacgtt gagggcgctc tgtccctccc 180
 caaggagccc ctcaaggcca ccacgcagca agttgagatt caagtcagga agatctattg 240
 catcaatagg gctatcccaa ccttccaat taaccttgaa gatgcagctc ggagtgaggc 300
 agattttgag aaggctgaac tggctggaga aaagcttggt cgtgttggtc aagataccccg 360
 cttgaactac agagctattg atctacgaac accc 394

<210> 12437
 <211> 219
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-011-Q1-K1-E10
 <400> 12437

cctactcaaa tatctaacac ctctcaaac aaacttttca caacattact cattacaata 60
 ctaataccta tactctttct acccataaaa atctctattc ccaccctata ctacaatgac 120
 atcctcccca aattccatat acattacaca ataataccaa taccatcaat aatatcactt 180
 taaaccaact ccatcacaac tocaaact aatccctct 219

<210> 12438

<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-E11

<400> 12438

gcattgctgg atcgttagct gggaagccat ccgatggacg cctggtaa atgttacgggt 60
gggacttgga agatctccca atgatgcttc tgcagcaggt tgccagccaa gtaatccact 120
ggctccacga tgaagcgggt gtccttgga tgaacgcgac aatagatttc ctgtgcctgt 180
acttggaact tgaccaaggt gaaacactag gcctgggtggc acacgttgac ccggatgaca 240
cctacggctg cgtctcatgg tacctcactc ttgatcatca cccaacggag gaagggaaga 300
tgtcagcggg tagtccggag ctagaggagc gcaggttttt ggggtacctt tccccggaat 360
tgctttactc taccctgatg gacctggtaa aactgtgcag cacaggtgtc caacgc 416

<210> 12439
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-E12

<400> 12439

cgaatccctc gcacgcatt cgcagccttt gctgcatcac accaccgca aaccccgga 60
ggcgcacga tggcgctaa ggcggaag aagccggctg cgaagaagcc agcggaggag 120
gagcccgtg ccgcgaaggc cccggcggg aagaagcca aggcgagaa gcgcctccc 180
gcggccaagt cgtccggcaa agaaggcggc gacaagaagg gtaagaaga ggcaagaag 240
tcggtgga cctacaagat ctacatcttc aagggtgctga agcaggtcca cccggacatc 300
ggcatctctt ccaaggccat gtccatcatg aactccttca tcaacgacat ctgcgagaag 360
ctcgccggcg aggtcgcaa gcttgccgc tacaacaaga agcccacat tacctctcg 420
gag 423

<210> 12440
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-E2

<400> 12440

cacagataag aaaggttacc gcaaaccgct tgctagcatc taaacagacc attcctcggt 60
actactggac agtagatgca cgtgttgaca aacttgtaa gttgcgaggt gaactgaatc 120
cactgcagga tgcttctggt ggaaagaaaa tatctatcaa tgatcttgtc atcaaggctg 180
cagctttggc tcttagaaag gtccttcagt gtaacagctc atggatgaat gattttattc 240
gccaatatca caatgtgaac atcaacgtgg ctgtgcagac tgaacacgga ttgtttgttc 300
cagtaattag ggatgcagac aagaaggac ttggtacaat tgctgaggaa gtgaagcagt 360
tggctcaaaa agcaagagac aatagcttaa aaccagcaga ttatgagggt ggcaccttca 420
cggtatcaaa cttgggaggt cccttc 446

<210> 12441

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-E3

<400> 12441

cccacgcgtc cggttttacc tcccaggta tcatcatgaa ccacctggc cagatttgca 60
atgtctgtgc ccagttctg gactgccaca cctcacacat tgctgtcaag tttgctgagc 120
tcgttaccaa gattgatagg cgatccggca aggagctgga gaaggagccc aaatttctca 180
agaacggtga tgctggtatg gtgaagatgg ttcccactaa gcccatggtg gtggagacct 240
tttctcagta tctcctctt ggtcgatttg ctgtccgtga catgaggcaa acggtggctg 300
tcggagtcac caagagtgtg gagaagaacg acccaactgg agccaagggtg acgaaggctg 360
ctgccaagaa gaaatgatct atctgtctgg tgctgtgctt gcttgttggt tacctcgtgg 420
aagcttaaaa tatctcgtct tg 442

<210> 12442

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-E4

<400> 12442

ggaggaggag gcagcgctg ctgttgctgc cactcctgag gtcgcagcga ccgaggagga 60
agcgggcgcc cctgtctccg aggccgccgt cgagtgagtc cagccagcgc cggacggcgg 120
ccgatctagc tcgctgcgtc agcctgtcac ctggcggtgcg ccgcgctggt gccactgcca 180
cggcaacagc acggcatggc gccggcatag gtcgctagga aaaacctgct tttgtgttcg 240
ggttcacgtc gtgtcctacg tggcgcgggc ggccccgcct agtaaaggag cgtaggagcg 300
tcgttttgtg ttgtggtcga ataaataatg tgtctgtgtg c 341

<210> 12443

<211> 426

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-011-Q1-K1-E6

<400> 12443

ggacgagcaa gctgatcaag tcggtgaccg gcctggagct gccggtgcgg ccggtgggca 60
cgctcatctg ctactggaag gtgaggcccg ggcgcgagca ggagctcacc ccggaggccg 120
ggttcccgac gttegccagc tacggcgacc cctacatcta cagcacgccg tcgatggagt 180
tcccggggct gatcaagatc gccatgcacg gcggccccgc gtgcgaccg gacggcaggg 240
actggtccac gggcgcgggc gacctggtgg agccggtggc ccggtggatc gacgccgtca 300
tgccggggcca cgtegcacacc gccggcgggc ccgtcgctccg ccagtgtgtc atgtactccg 360
tgacccccga cgacgactac gtcgtcgact tcctcgggcg ngagttcggg aaggacgtcg 420
tcacgc 426

<210> 12444

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-E7

<400> 12444

agcgagacaa ttggaattgt ggatcataag tttgtttcat caatgaagag ggggtcagat 60
ctggtcaaca ttgctcgggg acgcctgctg gactacaagg ctgtgtttga tcacctggaa 120

tcgggccatc tagctggtct ggggattgat gttgcttgga tggagccatt tgatcctgag 180
gaccctgttc tgaattccc aaacgtcatt ctaacgcccc atgtggccgg cgtcaccgag 240
tattcctaca gaactatggc aaagtctgtt ggtgacaccg cccttcagct tcatttaggc 300
gaggcggtca cggaggtaga gttcgtcaac taaaaaacg tccaggcggc agccgtagac 360
gcatgccatt cgtgggctat cggaaccgct gatgcgatca tttgtagaga ataatggatc 420
cgcgacttgt aagaataaac 440

<210> 12445
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-E8

<400> 12445

attctgacgg ccaaggggca gccagatgtc gccacccggc tgttcctgcg gaggctggag 60
gttgagctga agctgccagt gctcgcgctg gtggattctg atccatacgg gctcaagatc 120
ttgtcgggtg acatgtgtgg ttccaagaac atgtcgtatg acagtgccaa tctgacgacg 180
ccggacatca agtggctcgg tgtccggccg agcgacctgg acaagtacag agtgccggag 240
cagtgccgtc tccccatgac cgatcacgat atcaagggtg ggaaagagct gctcgaggag 300
gacttcgtga agcagaatga gggctgggtg aaggagctgg agacgatgct gcgcaccaag 360
caaaaggctg agatacaggc cctcagttcc ttccgggttcc agtacctcac cgaggtctac 420
ctgcctctta agttgc 436

<210> 12446
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-E9

<400> 12446

cctctaccta ccggagcagg gagcacgcca caccagccct ttccgcccgc gccaaagggg 60
tgagcgttcc taagaccaag aagacctact gcaagaacaa ggagtgcag aagcacactc 120
tccacaaggt tactcagtac aagaagggtg aggatagcct gtctgcccag ggaaagcgcc 180

gttatgaccg caagcagtca ggatatggtg gccagaccaa gcctgtcttc cacaagaagg 240
 ccaagaccac caagaaaatc gtgttgaagc tgcagtgccag gagctgcaag cactactcac 300
 agcacgcaat taagaggtgc aagcattttg agattggtgg agacaagaag ggcaagggaa 360
 catctctctt ctaagtttct catcgcccat ctcgatgttg gatcgaagct atgggtctac 420
 tactgttcta aaa 433

<210> 12447
 <211> 448
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-011-Q1-K1-F1

<400> 12447
 cccacgcgtc cgattcacgt gcagctgtcg ggagcaggca atggcgccgg atctaaggga 60
 actcggggcc gccgctccag cccgtggcgc ctacctgcc gccgctcggg tcgcggtcct 120
 cctcgctgcc tccttctctc cagtagccga gtcgtcctgc gtgcgagata actcattggt 180
 gagagacata agccaaatgc cgcaaagcag ctatgggatt gaaggattgt cacatataac 240
 agttgctggt gcgctcaatc atgggatgaa ggaggtggaa gtgtggcttc agacaataag 300
 tccaggtcaa aggacgcaa tccacaggca ttctgtgaa gaagttttca ctgtcctcaa 360
 agggaagggt acgtcttga tgggatcaag ctactaaag taccagggc agccacagga 420
 aattcctttc tttcagaata ccacattt 448

<210> 12448
 <211> 406
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-011-Q1-K1-F11

<400> 12448
 gtgcgcctcc atgaggaacg gcggtgccac cgaagtcgtc gccgggggatg agtcgtcgtc 60
 ctggccgtgg gcaggcgtgt tcagggtccc cgacgggtgg acggcggcgc ggagcgagct 120
 gggcggggtc atgaaggcca ccaaggccgt ggccatgttc caggcgctcg ccgtcaagag 180
 aggcgcgctc ctcaaggaca ggactgaggt ggtggacatc acctcctcca agcgaggtga 240

aggagagggg tcaatcatct cggtagggac gtccagcggc gaggagttcc acggcacgaa 300
atgcatagtg acagtgggcg catggacgag caagctgac aagtcgggga cgggcctgga 360
gctgccggtg cagccggtgc acacgctcat ctgctactgg aagggtg 406

<210> 12449
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-B4

<400> 12449

tgcttacctc gatgggctag aggcttctgg cttgagtgac ttatcccagag ttactagcgt 60

tgcgctcttc tttgtcagcc gtagtgacac ccttattgac aaaatgcttg acaagattgg 120

aacacctgag gcccttgccct tgagaggaaa ggctgcagta gcacaggcca aactagcaaa 180

tcggctctac cagaagaaat tctctggccc aagggtggag gcgttggcca agaaagggtgc 240

caagaacaaa aggttgttgt gggcatccac cgggtgtcaag aaccagctt atcctgacac 300

tctggatgtg gacagtctca tctgacctga caggttcaac acgatgcccg accaagcttt 360

gcaagcattt catag 375

<210> 12450
<211> 279
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-E5

<400> 12450

cgaagagcca actgcaacag atcgcatgac caatgtacag caaccacact ggtagtggtg 60

cactggttgt ttgtataatc cttagtgatc cagaattgaa gagtttgttg ttaaaagaag 120

tcaagggtat ggctgatcgt atcattggaa tgcgtaattc acttaaggat aaatcttaat 180

agctagggtc acctttgtta tggatcata tatttaatta ttattgtatt gttctttttt 240

tgttttattt attttttttt tttttttttt tttttttt 279

<210> 12451
<211> 440

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-A6

<400> 12451

ctttaggaca ctgcaacgtt tcacggctgc taccctggag catggcatgc acccacaaa 60
tgcaccaaag ccagaatggc gagcccttct tgatgagatg gcagttgtgg caactgagga 120
atatcggtcc attgtcttca aagagccacg ctttgtcgag tatttccgcc ttgcaacccc 180
tgaacagag tatggttagga tgaacatagg aagcaggcca tccaagagaa agccgagcgg 240
aggatatgac tcaactccgag caatcccatg gatctttgct tggacacaaa cgcggttcca 300
cctcccggtc tggctaggat ttggagccgc attcaagaat gtcctccaga aggacatcag 360
gaacctccac atgctccagg aaatgtacaa tgagtggcca tttttcaagg tgactattga 420
tctggtggag atggtgttcg 440

<210> 12452
<211> 422
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-014-Q1-K1-E8

<400> 12452

cagggatctt ctggaaggtg acctctacct gaagcagcgg ctccgcctgc gtgagtggta 60
catcaccacc ctgagcgtct gccaggccta caccctgaag cggatccgtg acccggacta 120
ccatgtcgcg ctgcgcccc acctctcaa ggagatcatg gactcgacca aggctgcggc 180
ggagctggtg aagctgaacc ctggcagcga atacgcaccg gggctggagg acaccctcat 240
cctgaccatg aagggcatag cagccggcct ccagaacacc ggttaaacca cgaagagggg 300
atcttttttc tctctctgat cattggctct aggtccttcg tatttttcgcg gattgtaact 360
tcggccacct ctctacaccg tgaggaaata atggtggttt ctgcanaagt ggtggtaaata 420
aa 422

<210> 12453
<211> 337
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-G6

<400> 12453

gatcaaccga atggaggagg gatgagtgtc cctacctgaa agttttccca cagatggggg 60

caaaaagcca gaaatagagg gtatcggtat aatgttctaa tagtatactc catcacaaaa 120

aatgtgcact tctattttaca ttgctttaag tcaaacaatc ttcggtttta ccaacttttt 180

tactacaaat atataaaagt tatatgatac caaataagta ccattagggt catcatagaa 240

tatagttcca tcgtatactt atttgtaata ttaagtgttg atattatfff gacaaactta 300

gtcaaactta aaatagttat acttgcacca gatctag 337

<210> 12454

<211> 415

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-040-Q1-K1-C12

<400> 12454

gaagaagacg agtgtcaagt gaacctgaaa cttgcggtgt cactggctgg tggagccgga 60

gtgtgagtga gtgatcgagc tagctgagct ccgatcctcg ctagctagct aggataccgc 120

cataccacaa gtcttcttca caagtttagg agtgacagca acaagagatc tcgatggcct 180

ctgccaccgt gctcaagtcc tccttccttc ccaagaagtc cgaatggggc gccaccaggc 240

aggccgccgc gccaggccg cccaccgtct ccatggctgt ccgcgccttc gnctacgccg 300

atgagctcgt gaagaccgcg aaaacgatcg cgtcgccggg gcgngcatc ctggcgatgg 360

acgagtcgaa cgcgacgtgc gggaagcggc tggcgtccat cgggctggag aacac 415

<210> 12455

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-F4

<400> 12455

cggacgcgtg ggcaagaatg ctccagatgg ttcattcttt ttgcttcatg catgtgctca 60

taatcccacc ggtgtagatc ctacggagga acaatggaga gaaatatccc atcagttcaa 120
 ggtgaaaaaa cattttccat tctttgacat ggcataccaa gggtttgcca gtggtgatcc 180
 agagagagat gccaaaggcaa tccgaatttt ccttgaagat ggacacccaaa ttggatgtgc 240
 tcagtcatac gcaaagaaca tgggacttta tggacaaaga gcaggatgcc tgagtatttt 300
 gtgtgaggat gagatgcaag cagttgctgt caagagccaa ctgcaacaga tgcgaagacc 360
 aatgtacagc aacccacctg ttcattggtgc actggttgtt tctataatcc tcagtgatcc 420
 agaattg 427

<210> 12456

<211> 139

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-F6

<400> 12456

tctgattgtc taaaacctat aattggtgta atggtttcgt agtggttggt tgaacagggg 60
 atgacgcata ttttgtcagg tctatgtgtt atcgttaaac ttttaacggt cattctattt 120
 caaaagtttt gcattttgc 139

<210> 12457

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-D11

<400> 12457

cacacacttg agaactccat ttcgatctca tttgaaatca acccatcctt gtgtccttcg 60
 tctgagcadc ctttcaccct catggccaac atcaagatcg ggatcaatgg gtttggcatg 120
 atcggaaggc ttgtggccat tgtggccctg cacagctacg acgtcgagct cgtagccgtg 180
 aacgaccctt tcatcagcac ctattacatg acctacatgt tcaagtatga cactgtgcac 240
 tgacagtgga agcaccatga ggtcaacgtg aacgacttca agacccttct ctttgggtgag 300
 aaagaggctg ctgtgtttga ctgcacgaac c 331

<210> 12458
<211> 218
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-G1

<400> 12458

ggaatcaacg gtttcggaag gatcggcagg ctctgtggcca gggtcgccct gcagagcgag 60
gatgtcgagc tcgtcgccgt caacgacccc ttcacacca cggattacat gacctacatg 120
ttcaagtact acaccttgca cggccaatgt atgcacagct acatcacctt caaggactcc 180
aagtctcttc tcttctgcga gaatctcttc actgtctt 218

<210> 12459
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-G11

<400> 12459

ccgacgcgtc cgcaagatca agatcggttt caatggggtt ggcaggatcg gaaggctggt 60
ggccagggtg gccctgcaga ggcgacgagt cgagctcgtc gccgtgaacg accccttcat 120
cagcaccgat tacatgacct acatgttcaa gtatgacact gtgcacggac agtggaagca 180
ccatgaggtc aaggtgaagg actccaagac ccttctcttt ggtgagaagg aggttgctgt 240
gtttggctgc aggaaccctg aggagatccc atgggggttcg gttggcgctg aatatgttgt 300
tgagtctact ggtgttttca ctgaccagga gaaggctgca gctcacttga aggggtgtgc 360
caagaaggtt gtcatttctg ctccatagcaa ggatgcccc atgttcgttg ttggtgtc 418

<210> 12460
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-D10

<400> 12460

cacacactcg agaactccat ttcgatctca tttgaaatca acccatcctc gttggctccg 60
tctagcagcc tctcaccctc atggccaaga tcaagatcgg gatcaatggg tttggcagga 120

tcggaaggct ggtggccagg gtggccctgc agagcgacga cgtcgagctc gtcgccgtga 180
acgaccctt catcagcacc gattacatga cctacatggt caagtatgac actgtgcacg 240
gacagtggaa gcacatgag gtcaaggatg aggactccaa gacccttctc tttggtgaga 300
aggaggttgc tgtgtttggc tgcaggaacc ctgaggagat cccatggggg tcggttggcg 360
cttgaatatg ttgttgagtc tactggtgtt ttactgacc aggagaaggc tgcagctcac 420
ttgaggttgg tgcca 435

<210> 12461
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-E12

<400> 12461

cacacactcg agaactccat ttcatctca tttgaaatca acccatcctc gtttcggcg 60
ttagcagcc tctaccctc atggccaaga tcaagatcgg gatcaatggg tttggcagga 120
tcggaaggct ggtggccagg gtggccctgc agagcgacga cgtcgagctc gtcgccgtga 180
acgaccctt catcagcacc gattacatga cctacatggt caagtatgac actgtgcacg 240
gacagtggaa gcacatgag gtcaaggatg aggactccaa gacccttctc tttggtgaga 300
aagaagttgc tgtgtttggc tgcaggaacc ctgaggagat cccatggggg tcggttggcg 360
ctgaatatgc ttgtgagtct actggtgttt tc 392

<210> 12462
<211> 395
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-048-Q1-K1-D4

<400> 12462

cacacactcg agaactccat ttcatctca tttgaaatca acccatcctc gtttcctcg 60
tctggcaggc tctaccctc atggccaaga tcaagatcgg gatcaatggg tttggcagga 120
tcggaaggct ggtggccagg gtggccctgc agagcgacga cgtcgagctc gtcgccgtga 180

acgacccctt catcagcacc gattacatga cctacatgtt caagtatgac actgtgcacg 240
gacagtggaa gcaccatgag gtcaaggatga aggactccaa gacccttctc ttggtgaga 300
aagangttgc tgtgtttggc tgcaggaacc cctgaggaga tcccatgggg ttcggttggc 360
gctgaatatg ttggtgagtc tactggtgtt ttcac 395

<210> 12463
<211> 428
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-029-Q1-K1-E5
<400> 12463

atcggcaggc tcgtggccag ggtcgccctg cagagcgagg atgtcgagct cgtggccgtg 60
aacgacccct tcacaccac ggattacatg acctacatgt tcaagtacga caccgtgcac 120
ggccaatgga agcacagcga catcaccctc aaggactcca agacgttctt cttcggcgag 180
aagccggtca ccgtctttgg catcaggaac cccgaggaga tcccgtgggg tgaggctggt 240
gctgagtatg tcgtggagtc caccggtgtc ttcactgaca aggacaaggc tgctgcacat 300
ctgaaggggtg gtgccaagaa ggttggtatc tctgccccaa gcaaagatgc acccatgttt 360
gttgttggtg tcaatgagga caagtacacc ttcgatgtta acattgtttc caatgctagc 420
tgcaccac 428

<210> 12464
<211> 434
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-058-Q1-K1-A12
<400> 12464

gcaggctgaa ttcttctcct tcggaacgaa cgacctgacg cagatgacct ttgggtacag 60
cagggatgat gtgggaaagt tcattcccggt ctatcttgct cagggcattc tccaacatga 120
ccccttcgag gtcttgacc agaggggagt gggcgagctg gtgaagcttg ctacagagag 180
gggccgcaa gctaggccta acttgaaggt gggcatttgt ggagaacacg gtggagagcc 240
ttcctctgtg gccttcttcg cgaaggctgg gctggattac gtttcttgct cccctttcag 300

ggttccgatt gctaggctag ctgcagctca ggtgcttgtc tgaggctgcc tcctcattgg 360
 caaccggatt gcctgctgct ggtggatgtg gtgatcaaca gtattattac agagccatgc 420
 tatgtgaaca ttac 434

<210> 12465
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-F6

<400> 12465

caagtgactc ttatccgccca agttgctgag aaagtgttcg ccaatgtggg caagactatc 60
 ggggtacaaag ttggaacaat gattgagatc ccagggcag ctctgggtggc tgatgagata 120

gcgagagcagg ctgaattctt ctcttcgga acgaacgacc tgacgcagat gacctttggg 180
 tacagcaggg atgatgtggg aaagttcatt cccgtctatc ttgctcaggg catcctccaa 240
 catgaccctc tcgaggtcct ggaccagagg ggagtgggag agctgggtgaa gtttgctaca 300
 gagagggggc gcaaagctag gcctaacttg aagggtggga tttgtggaga acacgggtgga 360
 gagccttcgt ctgtggcctt cttcgcaag gctgggctgg attacgtttc ttgctcccct 420
 tt 422

<210> 12466
 <211> 108
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-F2

<400> 12466

caggaattgg gacatcaggt ggcccttatc cgtcaagtcg ctaacaaagt tttcaccggt 60
 atgggtaaaa ctattgggta ccagatcggg accattattg agatttcc 108

<210> 12467
 <211> 382
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-G11

<400> 12467

aggacgcgtg ggcggacgcg tggctatatc tggctcaggg catcctccag cgtgacccgt 60
gctaggttct cgaccagaga tgaatgggcc agctgggttaa gcttgctaca gacaggggct 120
agcaaagcta ggcctaactt gaacgtggac attggtggag aacatggtgg agagcctcaa 180
tcggtagctt tattcgccaa gactgggctg gattacgttg ctgctccct tatcagggtc 240
ccgatcgcta tgctagctgc atatcatgtg ccagtctgag ggtgcctctg ttaggtcgca 300
gccggatcac ctgctgggtgc tacatgtgat gaatcatgat actactatga cagagccatg 360
ctactgtgag agcatcagta gc 382

<210> 12468

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-F4

<400> 12468

tgtccgtgct atggatggac tctcattgac tattcgactt ctggaccctc ccctccgcta 60
gttcctacca gaagggaacg tcgaggaaat cgtgctgtaa ctgtgttctg agacgggagc 120
caaccaggag gatgccctcg cacggatcga aaagctttcg gaagtaaacc cgatgcttgg 180
cttccgtggc tgcaggcttg gtatatcgta ccctgagcta acataaatgc aagcccgtgc 240
catctttgaa gctgctatag cgatgaccaa ccatggcttt caagtctttt caggggggaa 300
tggt 304

<210> 12469

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-D10

<400> 12469

gtcgctaaca aagttttcac cagtatgggg aaaactattg ggtacaagat cggaacgatg 60
attgagattc ccagggcagc tctagtggct gacgagatcg cggagcaggc tgaattcttc 120
tcctttggaa cgaacgacct cacgcagatg acctttggct acagcaggga tgatgtgggg 180

aagttcatcc ccatttatct ggctcagggc atcctccagc atgacccctt cgaggttctc 240
gaccagagag gagtgggcca gctgggtaag cttgctacag agagggggccg caaagctagg 300
cctaacttga aggtgggcat ttgtggagaa catgggtggag agccttcacg ggttgctttc 360
ttcgccaaga ctgggctgga ttacgtttct tgctcccctt tcaaggtccc gatcgct 417

<210> 12470
<211> 344
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-048-Q1-K1-A4
<400> 12470

cggaacgctg ggagctcttg tcccctatta ccttgatgaa aaaactgggt ggggttttga 60
gatgtctgat ctttaagaaac aactcgaaga tgctcggta aaaggcattg atgttagggc 120
cttgggtggtt atcaatccag gaaatccgac tgggcagggt cttgctgaag acaaccaata 180
tgatatagtg aaattctgta aaaatgaggg ccttgcttct ctagctgatg aggtatatca 240
agagaacatc tatgttgaca acaagaaatt taactctttc aagaagattg caagatccat 300
gggatacggc gaggatgaat ctctttta atcatttcaa tctg 344

<210> 12471
<211> 413
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-045-Q1-K1-G1
<400> 12471

cagtccagga aatccgactg ggcaggttct tgctgaagac aaccaatatg atatagtga 60
attctgcaaa aatgagggcc ttgttcttct agctgatgag gtatatcaag agaacatcta 120
tgtggacaac aagaaattta actctttcaa gaagattgta agatccatgg ggtatggcga 180
ggatgatctc cctctagtat cgttacagtc tgtttccaaa ggatactatg gagagtgtgg 240
taaaagagga gggatcatgg agattactgg cttcagtgct ccagtaagag agcagatcta 300
caagatagct tcagtgaacc tatgctcaa tatcactggc caaatccttg cgagcctcgt 360
catgaatcca ccaaagggtg gagacgaatc atatgcttcc tacaaggcag aga 413

<210> 12472
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-H7

<400> 12472

catggagatt actggcttca gtgctccagt aagagagcag atctacaaga tagcggcgagg 60
 gaacctatgc tccaatatca ctgggtcaa ccttgcgagc ctggtcatga atccaccaa 120
 gggtggagac gaatcatatg ctctctacaa ggcagagaaa gatggaatcc ttgagtcctt 180
 agctcgtcgt gcaaaggcgt tggaggatgc attcaacaag cttgagggat tttcatgtaa 240
 caaggccgaa ggagcaatgt atcttttccc tcagattctt ctgccacaga aggcaatcga 300
 ggctgctaaa gctgctaaga aagcgctga cgctttctac gctctccgtc tccttgaatc 360
 gactggaatc gtcgtgggtc ctggatctgg atttgggtcaa attcctggaa catggcaca 419

<210> 12473
 <211> 416
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-014-Q1-K1-A8

<400> 12473

cggacgcgtg ggtattcctg gacgggcaac aggtgcatat agtcacagtc aggggtgatga 60
 aaggattgct tgatgcaatt gctgctggga tcacctcacg tgacggattc cctgcaaattg 120
 cagatgacat tttcattaca gacggagcaa gtctctgggt ccacatgatg atgcaattac 180
 tgattaggaa tgagaaagat ggcattctgt gcccaattcc tcagtacccc ttgtactcgg 240
 cctccatagc tttcatggt ggagctcttg tcccctatta ccttgatgaa aaaactggng 300
 tgggggttgg agatctctga tcttaagaaa caactcgaag atgctcggtc aaaaggcatt 360
 gatgttaggg ccttggtggt tatcaatcca ggaaatccga ctgggcaggt tcttgc 416

<210> 12474
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-H5

<400> 12474

cgactgggca ggttcttgct gaagacaacc aatatgatat agtgaaattc tgcaaaaatg 60
agggccttgt tcttctagct gatgaggtat atcaagagaa catctatgtg gacaacaaga 120
aatttaactc tttcaagaag attgtaagat ccatggggta tggcgaggat gatctccctc 180
tagtatcggt acagtctggt tccaaaggat actatggaga gtgtggtaaa agaggagggt 240
acatggagat tactggcttc agtgctccag taagagagca gatctacaag atagcttcag 300
tgaacttggt ctccaatatc actgggtcaaa tccttgcgag ccttgatcatg aatccaccaa 360
aggcttggga cgaatcatat gcttactaca agggagagaa aggatggaac ccttgagtct 420
tt 422

<210> 12475
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-E5

<400> 12475

ggcaaactga cttatatcag caagacgttc agaagtatgg aaacattgag tacatgagat 60
gcggtccaga aaatggattt tttcctgac tgtcaactgt ccctaggaca gatattattt 120
tcttttggtc acccaacaat cctactggtg ctgctgcatc tcgggaccaa ctaaccaa 180
tagtaaaatt tgcaaaggac aacagggtcca tcatagtcta tgattctgct tatgcaatgt 240
acatatcaga tgacagccca aagtctatct ttgaaattcc tggagcaaag gaggttgcta 300
ttgagacagc ctcatctctg aaatacgctg gggtcacagg tgtccgtcta ggttggaactg 360
ttgtcccaa ggagctcctt ttctcgatg gacatccagt tgctaaagat ttcaatcgca 420
tagtttgcaac ttgc 434

<210> 12476
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-G3

<400> 12476

cgaaaagcta agcagagaga acaagcttac caaatcatca gtcattggtca ctgctggtgc 60

aaatcaggct tttgtgaact tggctctcac tctttgtgat gctggtgatt ccgttgtcat 120

gtttgcaccg tattatttca atgcctacat gtcattccag atgacaggtg ttactgacat 180

attagttggt ggctgcgac ccaagacact tcatcctgat gttgattggt tggagaaggt 240

tctgaaagaa aatgagccta tccctaaact tgtcactggt gtgaatccgg ggaacccctg 300

tggagctttt atttcaaggc ctatgcttga gagaatttca gatctgtgca aaaatgctgg 360

tgcattggctt gtggttgaca atacctatga gtactttatg tatgatggaa tggagcacta 420

ct 422

<210> 12477

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-H5

<400> 12477

cccacgcgtc cggaggcact taagatggaa attattccaa accccaagga agttgatggg 60

gtgaaagtcc ttcaacttga aactgcagct ggtgcagcta ttcgtttctt tgacaaagcg 120

attggaatta atgttccccg ctcaagattt ctcccgttga aggctacatc tgatttattg 180

cttgtgcagt ctgatcttta caccttggtt gatggctttg tcatccgcaa tccatccaga 240

gcgaatccag ctaacccttc gattgagctt ggacctgagt tcaagaaggt tgccaatttc 300

cttgctcggg tcaagtcct cccagcctc gtcgagcttg acagcttgaa ggtttctggt 360

gatgtctggt ttggttctgg aattacgctc aagggaagg tgacaatcac cgccaagtct 420

ggagtgaagt tggaggttcc a 441

<210> 12478

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-G11

<400> 12478

cccacgcgtc cgccccacgcg tccgccccacg cgtccgcgga cgcgtggggtt tcaatcagag 60
ccagtatcct cgcattgtta ccgaggactt cttgccactt cccagcaaag ggaaatctgg 120
gaaggatggc tgggtatcctc ctggatcatgg tgatgtgttt ccctctttga ataacagcgg 180
aaaacttgac atcttattgg ctcagggcaa agagtatgtc tttgttgcaa actcagacaa 240
cttgggtgct atagtcgaca tcaagatcct aaaccatctg atcaataacc agaacgagta 300
ctgcatggag gttactccaa agacgctggc tgacgttaag ggtggcactc tcattcttta 360
cgaaggaaga gttcagcttt tggagattgc ccaa 394

<210> 12479

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-G1

<400> 12479

ccaggatcta ccgggcttca gagaggcgct ggaggagtac gcgaaagcga tggaagagct 60
ggcgggtcaag ctgctggagc tgatcgcccg gaggctgaag ctgaggcccg accggctgca 120
cggcttcttc aaggaccaga cgaccttcac ccggctgaac cactaccctc cttgcccgag 180
ccccgacctg gccctcggcg tggggcggca caaggacgcc ggcgccctga ccattctgta 240
ccaggacgac gtcggggggc tcgacgtccg gcggcgctcc gacggcgagt gggctccgct 300
caggcccgctg cccgactcgt tcattcatcaa cgtcggcgac ctcattccagg tgtggagcaa 360
cgacaggtag gagagcg 377

<210> 12480

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-H8

<400> 12480

ggcacgcctc cgggacaact tgggttttagc cctcaacggg ttgcttcctt cccaggagc 60
tggggctgaa ttccgtttct tgctccctt ttcagggcc cgatcgctag gctagctgca 120
actcaagtgc ttgtctgacg gtgcctctgc tcgttggcag ccggatcgcc tgctgttggt 180

gcacctgggtg attaataata ctactatgac agagccatgc tctgtgaaga gtattagtag 240
cagcgctcat aaaagctaca gttccgtctc ttttctcagc tatgtaaaac ttccaaactg 300
ttcatgctta aaactgaggg ttttcttggg gtgaggtgtg catgtcgttg ttgaggccat 360
tgctgcacat tccacctatt gaggcctcc tcaaaataag ccttcaaaaa gctgatatct 420
ttt 423

<210> 12481
<211> 397
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-003-Q1-K1-F1

<400> 12481
cgaccagaga ggagtgggag agctgggtta gcttgctaca gagaggggccc gcaaagctag 60
gcctaacttg aagggtgggca tttgtggaga acatgggtga gagccttcat cgggttgcttt 120
cttcgccaag actgggctgg attacgtttc ttgctccctc ttcagggtcc cgatcgctag 180
gctagctgca gctcaggtgc ttgtctgagg gtgcctctgc tcgttggcag ccggatcgcc 240
tgctgttggg gcacctgggtg attaataata ctactatgac agagccatgc tctgtgaaga 300
gtattagtag cagcgctcat aaaagctaca ggtccgtctc ttttctcagc tatgtaaaac 360
ttccaaactg ttcatgctta aaactgaggg ttttctt 397

<210> 12482
<211> 425
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-023-Q1-K1-C8

<400> 12482
aaatcgagtc cctgaacaag aagtatggat gtaatgtccc tttacttctg atgaactctt 60
tcaataccca tgatgacaca cagaagatcg ttgagaagta ttccaaactcc aacattgaaa 120
ttcatacttt caatcagagc cagtatcctc gcattgttac cgaggacttc ttgccacttc 180
caagcaaagg gaaatctggg aaggatggct ggtatcctcc aggccatggt gatgtgttcc 240
cctctttgaa taacagtgga aaactcgaca tcttattggc tcaaggcaag gagtatggtc 300

ttcgtgctaa ctcagacaac ttgggtgcta tagtcgacat caagatcctg aaccatctga 360
tcaataacca gaatgaatac tgcattggagg ttactccaaa aacattggct gatgttaaag 420
gcggt 425

<210> 12483
<211> 345
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3059-058-Q1-K1-A4
<400> 12483

ctaggcctaa cttgaagggtg ggcatttgtg gagaacatgg tggagagcct tcatcggtgg 60
ctttcttcgc caagactggg ctggattacg tttcttgctc ccctttcagg gtcccgatcg 120
ctaggctagc tgcagctcag gtgcttgtct gaggggtgcct ctgctcgttg gcagccggat 180
cgctgctgt tgggtgcatct ggtgattaat aatactacta tgacagagcc atgctctgtg 240
aagagtatta gtagcagcgc tcataaaagc tacagttccg tctcttttct cagctatgta 300
aaacttccaa actgttcatg cctaaaactg anggttttct ggtgt 345

<210> 12484
<211> 339
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3059-018-Q1-K1-H2
<400> 12484

cggacgcgtg ggtgagattc ccagggcagc tctagtggct gacgagatcg cggagcagtc 60
tgaattcttc tcctttggaa cgaacgacct cacgcagatg acctttggct acagcagga 120
tgatgtgggg aagttcatcc ccatttatct ggctcagggc atcctccagc atgaccctt 180
cgaggttctc gaccagagag gagtgggcga gctgggtaag cttgctacag agaggggccc 240
canagctagg cctaacttga aggtgggcat ttgtggagaa catggtggag agccttcac 300
ggttgcttct ttcgccaaga ctgggcttga ttacgttct 339

<210> 12485
 <211> 432
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-028-Q1-K1-G7

<400> 12485

cggacgcgtg ggcaggggatg atgtggggaa gttcatcccc atttatctgg ctcaggggat 60
 cctccagcat gaccccttcg aggttctcga ccagagagga gtgggcgagc tggttaagct 120
 tgctacagag aggggccgca aagctaggcc taacttgaag gtgggcattt gtggagaaca 180
 tgggtggagag ccttcacggt ttgctttctt cgccaagact gggctggatt acgtttcttg 240
 ctcccccttc aggggtccga tcgctaggct agctgcagct caggtgcttg tctgaggggtg 300
 cctctgctcg ttggcagccg gatcgcttgc tgttggtgca tctggtgatt aataatacta 360
 ctatgacaga gccatgctct gtgaagagta ttagtagcag cgctcataaa agctacagnt 420
 ccgtctcttt tc 432

<210> 12486
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-C3

<400> 12486

aacgacctca cgcagatgac ctttggctac agcaggggatg atgtggggaa gttcatccgg 60
 atgtatctgg ctcagggcat cctccagcat gaccccttcg aggttctcga ccagagagga 120
 gtgggcgagc tggttaagct tgctacagag aggggccgca aagctaggcc taacttgaag 180
 gtgggcattt gtggagaaca tgggtggagag ccttcacggt ttgctttctt cgccaagact 240
 gggctggatt acgtttcttg ctcccccttc aggggtccga tcgctaggct agctgcagct 300
 caggtgcttg tctgaggggtg cctctgctcg ttggcagccg gatcgcttgc tgttggtgca 360
 tctggtgatt aataatacta ctatgacaga gccatgctct gtgaagagta ttagta 416

<210> 12487
 <211> 390
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-E2

<400> 12487

ggcgttcaag tctttccaga gataatgggt cctcttggtg gaacaccgca cgaattggga 60

catcaggtgg cccttatccg tcaagtcgct aacaaagttt tcaccagtat gggtaaaaact 120

attgggtaca agatcgggac gatgattgag attcccaggg cagctctagt ggctgacgag 180

atcgcgagac aggetgaatt cttctccttt ggaacgaacg acctcacgca gatgaccttt 240

ggctacagca gggatgatgt ggggaagttc atcctcattt atctggctca gggcatcctc 300

cagcatgacc ccttcgaggt tctcgaccag agaggagtgg gcgagctggt taagctcgct 360

acagagaggg gccgcacagc taggcctaac 390

<210> 12488

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-F7

<400> 12488

gcacatgtgc tttgcttcag actagaggat taaggctgtc aggcagatga ttatggctcc 60

cactcttgag ctgaggcagc aggcgctcga ccgtctcttg ccgtatcaga ggtctgactt 120

cgaaggcatt ttccgtgcta tggatggact cccggtgacc atccgactcc tggacccttg 180

cctccacgag ttccttccag aagggaacat cgaggacatt gtaagtgaat gatgtgctga 240

gacaggagcc aaccaggagg atgccctggc gcgaatagaa aagcttccag aagtgaaccc 300

gacgcttggc ttacgtgggt gcaagcttgg tatatcgta cctgaattga cagatattca 360

agccccgggcc atttctgaag ctgctat 387

<210> 12489

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-H7

<400> 12489

agaggtctga cttcgaaggc attttccgcg ctatggatgg actttcagtg actattcgac 60
 ttctggaccc tccccttcac gagttccttc cagaagggaa cgtcgaggaa atcgtgcgtg 120
 aactgcgttc tgagacggga gcccaaccagg aggatgcctt cgcacggatc gaaaagcttt 180
 cggaagtaaa cccgatgctt ggcttccgtg gctgcaggct tggatatatcg taccctgagc 240
 taacagaaat gcaagcccgt gccatctttg aagctgctat agcgatgacc aaccagggcg 300
 ttcaagtctt tccagagata atgggtcctc ttgttggaac accgcaggaa ttgggacatc 360
 aggtggcctt tatccgtcaa gtcgctaaca agagcttcac cagtatgggg aaaacta 417

<210> 12490
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-G10

<400> 12490

ggttgacaat attacatgtg caccgaccac aaaccaaata atcagcaaaa tggatttcga 60
 gtggcatctc aacatgcaca accttaggta aaagcttgag atggagaaac taaaagtttc 120
 caacagcgaa cacaagagt ggctggggct ggcctaggag gggaggaaga agagtgccat 180
 cacacgaaaa ccatgacctc acagcattgg tgcagtaaca tttcactatt tagagcctat 240
 gatcaggctt taaagagtgg ctggggctgg cctaggaggg gaggaagaag agtgccatca 300
 ctaacaaaac agccccctga accatggttg ttttgcgacc tctaaagggtg gtaataacta 360
 acttgaaga aggaaaagta ctagaccttg atggcaaaat gtggcctgat gcttctgata 420
 ctgatgc 427

<210> 12491
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-B10

<400> 12491

cccacgcgtc cgccgaaact ccgacagtcc gaccacaaga aggatgagtg aagaggatga 60
 gactgctgct tctgctgagc agccgaagag ggcccctaag ctcaatgaaa ggatcctctc 120

ttctctgtcc aggaggtccg tagctgctca tccatggcat gatcttgaga tcggtcctga 180
 tgctcctgct gttttcaatg ttgttggtga gatcacaaag ggaagcaaag ttaaataatga 240
 gcttgacaag aaaactggac tgattaaggt tgatcgagtc ctgtactcat cagttgtata 300
 ccctcacaat tatggtttcg ttccaaggac tctttgtgaa gacaatgacc caatggatgt 360
 gttagtcttg atgcaggagc ctgttggtcc tggttcggtc ctgagagcaa gagcaatcgg 420
 ccttatgcc 429

<210> 12492
 <211> 154
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-H3

<400> 12492
 gtctgccga tggagaatcg agcagccctt ttttttgggt ctatcaacta tgctgtaatg 60
 ctggctatgt atcggcaaaa acaattctat atgctgagtt ggagtcggca aaaattcata 120
 tatgctgagt tggagacagc aacttggttg gac 154

<210> 12493
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-B3

<400> 12493
 ccgactcgta cgtcatgcaa caaaaccctt taatgatgga aagtacctcc cggttcaggt 60
 gggacctata aactgggtat tttttcgcga ctacaggaag gtgtggaagt acttcacgaa 120
 gttgattgct tagcaactgg aagatatgct atcattgatg cactaagggtg gaacgttgga 180
 attatcgatg ccacatacag cacacgaata ccgaagaaca tgctgatgaa aatggctgaa 240
 ggaaaatgtc agatcatatt tctgtgaaca ctatgtaatg accaacaatgt tcttgagaga 300
 actatacaat cgaaagttca acaaagacct gactatgcat agcatacaga atatgaagct 360
 ggcgtacaag atttcaaata ccgattggcc tattatgaaa 400

<210> 12494

<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-A7

<400> 12494

cccacgcgtc cgccccacgcg tccggacaag gttgcgtatg ccctgtctca gggactaaag 60
gtcattgcat gtgttggtga gacccttgag cagagggagg ctgggtctac catggatggt 120
gttgcgtcac aaacaaaagc aattgctgag aagatcaagg actggagcaa cgtagttggt 180
gcctatgaac cagtttgggc tattggaact ggtaaagttg ccaccccagc tcaggctcag 240
gaagtgcacg cctccctgag ggattggcta aagaccaatg ccagccctga ggttgctgaa 300
tctactagga tcattctacgg aggtctctgta actgctgcga actgcaaaga gctagcagca 360

cagcctgatg tcgatggttt tcttgctcggg ggagcttctt tg 402

<210> 12495
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-G9

<400> 12495

aatggggttat tcttgacac tctgagcgta gacatattat tggtgaaaat gaggagtgtg 60
ttggaaagaa ggctgcatat gcattgagcc aaaatgttaa ggttattgcc tgcataaggag 120
agctgctgga agagagggaa gcaggcaaaa cttttgatgt atgttttagg cagatgaagg 180
cttttgcaga tagtatttca aactgggcag atgttgtaat tgcatacgag cctgtttggg 240
ctattggaac cggaaaagtt gctactcctg aacaagccca ggaagttcat gctgctgtac 300
gcaattggct gaagaccaac atatgaccg atgttgctc tagcactcga ataacttatg 360
gaggatctga gaatgcatgc aactgtgcgg agctagcaaa gaaagaagat attga 415

<210> 12496
<211> 146
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-A2

<400> 12496

cgctcctagca atcatcattt atctaactaa ctttaagcatt aaatcaaaac tgcaacatca 60
atgatctagc taaatttacc atgactctag cgctttagt tcttgcttcc attgctttaa 120
tatcaagtgt ttcttgtaca cataca 146

<210> 12497

<211> 178

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-001-Q1-K1-B11

<400> 12497

cccggtcca cccacgcgtc cgcgcaagac ctgccttcgt cagatcgtcc ttgaacaacg 60
gagcagaagc caaccnncgc nttttcacag agcctggggg cgctatagcc gccgtggagg 120
tgtgcgtgaa ggccgccgcg gggaaccccg acactctcgg cgatagtcgg atctcgca 178

<210> 12498

<211> 152

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-C2

<400> 12498

tgcacgcgtg cgttttccgt ctccgcttca gcattcgacg gccgccggca cacaccagag 60
cagtggtaaa ttctagaacg cggaagagac taggatgtga tgatgactcg ctgcgtgact 120
gaagactgat gaatggtgcg tgtgacattg ac 152

<210> 12499

<211> 245

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-D5

<400> 12499

tgcactcttc cgccaacatt caagcttgaa agcggaatcc agtagcaacg gcagaggaac 60
aattgcaacc aacatatgcc ccttccttat gctccttgct ctttctgcat gtgttgctaa 120

cgcgacaatt ttccctcaat gctcacaatc tcctatagct taccttcttc ccccatacct 180
tccatcaatg atagcttctt tatgtgaaaa cccatctctt cttccctatt agctccaaca 240
agcaa 245

<210> 12500
<211> 139
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3059-001-Q1-K1-E12
<400> 12500

aataccggcg tcgacccacg cgtgcgggag aatccaattt gtgacacgaa tgacaaactt 60
cctatgactg cgcagaccca agangttctt aaaacgctga acggcccaca ataggggagc 120
catgatgata aaccagccc 139

<210> 12501
<211> 190
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-001-Q1-K1-E4
<400> 12501

ccggtcgact cagcggtccg agagagccga gatgatcacc ctacgattac aaatgatcag 60
ccagagcccc ggaagcgagc taggcaaac ccaaagggcc aggagcccac agcggatagc 120
agcaatatca acaaagagac atagaaaaag taaagcgatg aaccccagcc aagagaggcg 180
aaagaaggaa 190

<210> 12502
<211> 226
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-001-Q1-K1-G1
<400> 12502

gtccgcgagg atctaccttt cttcatagag ttgctggttg agtacgcgaa agcgatggaa 60

gagctgggggt aaattctgct ggagcttatc tcccggagcc tgaagctgag gcccgaccgg 120
 ctgcacagct tcttcaagga ccatacgacc ttcacccggc tgaaccacta cccttcttgc 180
 cctagcccct acctggccct cggcgtgtgg cggcacatag gactcc 226

<210> 12503
 <211> 202
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-G12

<400> 12503

ccggctcgac ccacgcgtgc gcccacgcgt tcgatctcct tctcaataac tatattattc 60
 ttccattccc gtctggattt aatcatacat aaccggtcca ttcacatgcg aggatgaaat 120

caactcccct gtgtctcctg ctactcttta caaggcccta attacagata cctacaactt 180
 catcccaaaa gcacttgatt cc 202

<210> 12504
 <211> 261
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-H1

<400> 12504

cctgagacca acaagctaca tataaagatt aaaacttgat caacaataga gcaacaatgg 60
 agaccgtgat attttaacta cttatgctcc ttgctcttcc tacatgtgtt gctaacgcta 120
 caattttccc tcaatgctca caagctccta tagcttccct ttttccccca taccttccat 180
 caattataac ttcattatgt gaaaacccat ctcttcaacc atataagctt caacaaacaa 240
 tcacaactaa acaacatacc t 261

<210> 12505
 <211> 101
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-H11

<400> 12505

cccgtccac agctcactat cggcggccgc tctaagatcc aagctacgtc acctgcatcg 60
actctaggtg gggttaaaaa ctaaaccaac cactgccggc g 101

<210> 12506
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-A10

<400> 12506

gctgagtgat tctacggatc catttaaccg ctcccacctg actcaagaca tgggaatacc 60
aaacacggag ctcaagttgc agatcgagga atttgtccag tcccagcagt tgagaaagcg 120
aactgctgcg gtgtcagaga ttggccaagc ggatgggtgct gatgatatgg ccgaatgaat 180
tgtgcgagca gcagggatgg acattttctt ttgtgggtggg gaaagacgga tgctaattta 240
cgcgaaattt accagttcat cggtcctgat aaaatcgggt tgccagcttg tgtcaccatt 300
tgtctccatt ctttgtaaatt gttgtaagt caccggttgta attttaagtc cctgtttggt 360
tacctttgaa aaaaagtatt ct 382

<210> 12507
<211> 278
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-A2

<400> 12507

cccgggtcga cccacgcgtt cgatcaatca tcattcatct tagtagtcta ggcaccaaatt 60
gaaatctgca acctcaattg tgtaactgca aaaaccatga agctgggtgct tgtggatctt 120
gctttcattg gtttaatatc aagtgggtttt tggacacaga caggcgggtg cagctgtggg 180
caacaaccaa ggcattgagcc ataacttcat ccacaacagc atgattcacg gaaacaacga 240
catttaacac catcacaaca ttatctgcag tagctaca 278

<210> 12508
<211> 305
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-C3

<400> 12508

ggccaaatca agacgggagc tccttgccgg tctgagcgcc tggccaaata caaccaggtg 60
ctcaggatcg aggaagagct cggatgatgcc gcggtctacg cgggagcaaa gttcagggca 120
ccagtggagc cctactaaga aaggaagagg atggggatgt tttcttgtgg agctatacta 180
gctcgtgctg gccttttgtt acaatgtttg tacggtcgca ataaatgtat ggtcgtgttt 240
gctcgagagc tactcaggtg attttgtcgt gggagcacca aaagcagaaa agaactgttt 300
tttta 305

<210> 12509

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-F5

<400> 12509

gcgccggcct ctccggcgtc gtctacgagc acctcgtcgc cggcccggcc gccgaggagg 60
aggagcccgcc gccgagctgc ggcgaccgcc gtcgtgctga gaggactaca tgcattgcagg 120
agcagcagga cgctcgctgc gtccccgctc ctccgaatct tctgaataaa aaaaacagct 180
tgcattgcgtg ctcaattgtt gtgtgtcgtg gtcgatcatg agtagaatta atgtttcatg 240
catgcactct taccgtcttc tacttatgtc cttgtttgct tcaataatct ggcttgtgctg 300
ctgggtgtaa aaaaaaaaaa aaaaaaaaaa aaaaaaaga aagc 344

<210> 12510

<211> 205

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-G2

<400> 12510

tgcgttgctt ctcgtcagga ctccgggaact tttccaactc cgatgctaag cgtgtagctt 60
gcttggtcag tcgatgtacc atgttaatca agtgctagcc ctttctctgc tctgtcgtcg 120
aagttcttcg gtcttcactt cttgatctgc agatgatata tgaaaacgtt atacgaaatg 180

gaatataata ttctatcttg ttgac

205

<210> 12511
<211> 451
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-001-Q1-K2-H2

<400> 12511

tgctcgtacc ggtccggaat tcgacgccac gcgtcaggct tcgtcagaga atgcagtcga 60
tcttgacagag gccatcctag agaaatcgga aggcaagggtg cggctgaccg gcttggggcg 120
ccgtgacagt ctccgactgg aggcaggcct gtgcctgtac ggcaacgaca tggagcagca 180
catcacgccg gtggaagccg gcctctcatg ggcgatcggc aagaggagga gggcagaggg 240
cggtttcctg ggcgcagacg tgatcctgaa gcagcttcag gaaggcccaa agatcaagcg 300
cgtgggcatg gtcacgcaag ggccgtccgc gcggagccac agcgagctgg tgaaccgctc 360
gggggaaagg atcggcgagg tgaccagccg gaggttcagc ccgtgcctga agaagaacat 420
cngctatggc tacgtgaagt cgggaatgca c 451

<210> 12512
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-H9

<400> 12512

ggtccggaat cccgggtcga cccacgcgtt ctccacgcgt tcgccacgcg ttcgccacgc 60
gttcgtcacg cgttcgccca cgcgttcgga cgaactagca acatagaaag cacaatagtg 120
taccaacaat ggcagccaaa atatcttgct tccttatgct ccttggtctt tctgcaagtg 180
ttgctaccgc aaccattttc ccacaatgct cacaagctcc tatagcttcc cttcttcccc 240
catacctctc accagcgggtg tcttcaatgt gtgaaaaccc aattgttcaa ccctacagga 300
tccaacaggc aatcgcaaca ggcatcttac cattatcacc ct 342

<210> 12513
<211> 433

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-002-Q1-K2-A10
 <400> 12513

```

cccgggtcga cgccacgcgt ccgnccacgc gtncgcacca tcacagattt ttgagctgct 60
tgctcaagcg tagagagggga ggnggagaaa gagaagaggt gtccagtcgg ctgactcccg 120
gtttgcttgc gatgttcagg ggcgggtgggt ggcgccacgg tgctcgagct gaggcaccac 180
agcttcagcc ctgcgccggc caacagcagg gaggaggagg cggacgctct cctgtccgcc 240
gacgccgcgc gcgtctcgtc gctgcaaggg cgcataagac actaccggct gacgacgacc 300
agctcgtcgg ccgaagtggc ggtgacggcg tccaaggcgc aggtgcccgt cagcttgggc 360
gcgaggcttc ggacgctgaa ctacgtggcc accgtggggc ttggcgggcg cgaagccacc 420
gtgatcgtgg aca 433

```

<210> 12514
 <211> 411
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-002-Q1-K2-A11
 <400> 12514

```

tcagcattgc caacatagcc gactttgcta aaccacctga aaagatatct taccctcagc 60
aagttgctgt tgcattgact ggactcattt ggtcaaggta cagcttggtt atcacaccga 120
gaaactggaa ccttttcagt gttaacgttg caatggcggg tacaggcctg tatcagcttt 180
cacggaagat caggcaagat tacttatccg atgagaaaga tgctgcttaa cacctggagg 240
cttaattaat gacaacaggc aaagattacc ggatgggaaa gcctgcatcc taggagtcta 300
ctctggattt ttttttctg gccagccaag gattaccgat tggtaagggt tggtttcccg 360
gtaatcctaa attcggaacc agcctaattg gaaaatcttc cgccaaaaag g 411

```

<210> 12515
 <211> 407
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-002-Q1-K2-A3

<400> 12515

tccttaccga cccaaggact gaccatcagc caattaagga gtctgctctg gggaacatgc 60
ccaccattgc cttctgtgat actgactctc ccatgcggta tgcgatatc ggcaccccag 120
cgaacaacaa ggggaggaac agcattggat gcctgttctg gcttttggcc aggatggttc 180
tgcagatgag gggcactatc ctccctgggc acaagtggga ggatcatggg gatttgttct 240
tctacagga cccagaggaa gcaaaggagc aggaggagga agctgctgtt gcccttgagt 300
ttgccgcaat cactgattac caaggagctg atcagtgggg tggtgaccag tggacctctg 360
atgtgactgc gccgnctgtt gctcctactg gtgctgattg ggggtgct 407

<210> 12516
<211> 158
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-A8

<400> 12516

tgataactca agagagagtc caccctagaa caacttttct tccttggact tgggtgcaact 60
tttgagtgtg gaaatggatt ggaatagtcg ccatgaattt gctggctact ttatacatgt 120
ctttgttcat aaaccttggt ttaagatgaa gttgtggc 158

<210> 12517
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-B4

<400> 12517

ggaattcccg ggtcgacca cgcgttcgct cttcggcttc tttctggagc aactaggggt 60
ccgttcttga tccgatccgg ccagtggaca acaacttttc ccaattcgat cgaattgatt 120
ggccgccaag gccaaaagga gatgattacc cctaaaagcc tcgattgcca agaattcgaa 180
gtggaaaaag ccgtggcgat ggaatcgag accattcggc acatgatcca agatgactgg 240
tccgacaacg gtatcctctt ttctaacgct aacttcaaga tcctatccaa ggtaatcgag 300

tacttgaaca agcacgtaca tgccgctcgtc ggcgctcgtcg tcgtc

345

<210> 12518
<211> 106
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-C11

<400> 12518

agtgtgttgt gttgtgtggg tgccgcacgc tagcaggcta gccatgtgcc ctgctgtgtt 60
gtgtcaccat ccattctataa tcttatccat accccacctt ttgtgt 106

<210> 12519
<211> 146
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-C4

<400> 12519

ggattcccgg tcgaccacg cgttcggtag tgctcatatt gtgcgaaaaa aaaaaaattc 60
atccgactga taataaaatg actcgggata ggacaaaata taaaaaaaag tgaaaccatt 120
ctaaagactc atgcttacct aaatac 146

<210> 12520
<211> 283
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-C5

<400> 12520

gaattaccga tcgaccact cgtcctaccg acacacctac aacattttta gattccaact 60
aactaaagc gactgaggct tatagactct ctaaaaacct caataactat ctcaccattc 120
atcaccaccc atataaaaac cctcaactta ttaacaactc tccataatat ataacttcac 180
atcacatact acaaaacatt aaaatactac caattactat tctaccacca ataataactc 240
atagactcca tcctcaaag tatccaaatc attcaaata cac 283

<210> 12521
<211> 153
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-C9

<400> 12521

gtcatgttta gattttaagc ttgttttatg ttggaaagta ctggaaagac tgctacttgt 60
ctttatattt ggtaattcag ccgtagattg ctatgctggg tgggatttac tcgtgaacca 120
gagtttttct gtcttatata tcctgaattg gtt 153

<210> 12522
<211> 443
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-002-Q1-K2-D2

<400> 12522

cccgaattc ccgggtcgac ccacgcgttc gcgctgatga atgcatgggt cttggccacg 60
aaacacttta tggcattgct ttccgaaact ctgaaagctg acgacccta gctttggaga 120
cttgaaccac ttgatcagtg caacgatgag tgggtgtcact tgctgcctnc gttcccagg 180
acagcttaac tctgacctgc gcaagcttgc agtcaacctg atcccggtcc ctcggctcca 240
cttcttcatt gttggctttg cgccactcac ctgcgctggc tcgcagcagt accgtgcgct 300
caccgtccct gagctaacc agcagatgtg ggatgccaa aacatgatgt gtgctgctga 360
cccacgcat ggtcgctatc tcacagctc tgccatgttc cgtggcaaga tgagcactaa 420
ggaggtgatg agcaaagat taa 443

<210> 12523
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-D4

<400> 12523

tcccgggtcg acccagcgt tcgcgcatgg ccgcctttt ttttcgttt ttcgtgttc 60

catccgttta tgtttttggt ggggatttgg ctttttatac agggcagtca atcatattgg 120
tgtaagtggc aattaaacga tctagtgcgt ttaatcaaaa tccaatggcg accggtatct 180
acatttactg gaacctagta ctattttatg ttaaagctcc tccatatgaa attgctagaa 240
ctagattgaa tgctttgctt tcaccaaag agtgattgca catgattcac cttccacctt 300
aaggggcaca ttcatgatca acc 323

<210> 12524
<211> 380
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-002-Q1-K2-D7
<400> 12524

tggacgcgtg ggcttagagg ctagaccag tatccgggct ctcaagcggg ctcttttggt 60
ggcactgagg tgtgttgatc ctgactctga aaagagacct aagatgggcc aggttggttag 120
gatgcttgag tcagaagaag taccataccg ggaggatcgg agaaatcgta gaagtcgcac 180
tggaagcatg gatattgagt ccattgcaga gggttccaac tctgcggagt ttggaaagaa 240
ggtagaaagg actggaagct ctatatctga cagatctcaa ccatgaggcc tggaaatcta 300
agctatatca ggaactgtct cagaaacgat gttaatcacc aaggtgattg ctgtcctgat 360
aggggatgct ggtaggtgac 380

<210> 12525
<211> 104
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-002-Q1-K2-E11
<400> 12525

gcaaagtta gttacatggt gaatcgacat tgggggcctg gatttgggga tacatcatgc 60
tgtaaattga tcagtttaat taccatactg tgctgctttg agcg 104

<210> 12526
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-E3

<400> 12526

atcttcctgg ctgctgctgc tgctactgct acctgtctgt ttggtgttct aaaagactct 60
gatgagtggt tctgaatgtc tgcatttcaa aaaaaaaaaa aaaaaaaaaa aaaaaagg 120
caaccggtct acaggactca agcttacata ctcacgcacg cgaccatgca actccataat 180
agtgccacct agacacatat aactaaccga ctgtccacaa cgttacaact gggaaaaccc 240
taaaaccacg caactacaaa acttaacagc acatccccac atccccatct ggccagctag 300
cgaataggcc cagaccgatc gccctatcga acattcgaac aggtctgcat ggctaaatgg 360
acaacgccac gtagccctgc atta 384

<210> 12527

<211> 207

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-F4

<400> 12527

gaattcccg gtcgaccac tcgttcgagg actcgtggga aaaaaaaaaa aaaaataaac 60
tacaatgata ataaaaataa aaataggaaa aaaggaaaaa acaaaataac tataatcaaa 120
taaaagggcg acctttttgt gggaccctat tttagttcac gtgctttcga tgtcatactt 180
cttgtatggt gtcacctaatt ttctatt 207

<210> 12528

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-G4

<400> 12528

ggaattcccg ggtcgacca ctcgtccggc acaggaagca tcttgacagc agtatcgatt 60
tcgttgggag gctcgtcttc ggatttgaga aagggccttc gatgcttgag gctgttagaa 120
cctctggtca accattagtc gatgactggg actgtttgaa gaggatggtg cggattttcg 180
agtcccagtg tggttcactt actcagtacg gcatgaagta catgagagcg tttgcaaaca 240

tctgcaacag tggatatct gagatgaaaa tgagggagtc gagcatcagc gcttgacgca 300
gctacaactc ggcgaggtgg agcccgatgg ctcggggaca cagtgcctga tggtaaagat 360
caaatagcaa agccccccga ggtctgctgc cccatgtccc tgtgagcgag ctcgatatcat 420
ctgggggactg 430

<210> 12529
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-H2

<400> 12529

aattcccggg tcgacccact cgtccgaaat ttccatgcct attatgggtgg ctcccactgc 60
tttgacaaaa ctageccacc aagaaggaga ggttgcttat gcccatgcag cagctgctgc 120
aggaactata atgacgttgt cttcatggtc atcttgacgc attgaggaag ttagctcaat 180
tgcaccagga ctccgtttct tacaactttc agtattcaag gatagggata tcgtgcaaca 240
gcttgtcaga agggctgaaa atgctggcta taaggcaatc gccgtcactg tcgacgctac 300
acgccttggt cgcaggaag ccatgtcag gaacagattc 340

<210> 12530
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-A10

<400> 12530

cgggtggacc cagcggtccc gtgacgcgtg ggtgccaagg ttacctgttg cgaggccagg 60
gagtgcattc acgtcggggg cgaggaccgc atgggcttat tctggtacaa caagaagttc 120
tagccgccgt cgttcgata gctgagagga cgctaccata tgaatgggat caagaaccag 180
gaggacgaga cggctactgc cctaaagtct ccgtctacct atctaactgt tagtcgtcag 240
tcttttaaac ggtaagagag atcatttggg ctcatagacg aaggcttact gcatagccat 300
cgcttgagct gccatcaagt acatgtaggc aaattcgta acttagtgtg tcccatgtcg 360
taattctt 368

<210> 12531
 <211> 428
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-003-Q1-K1-A12

<400> 12531

tgctatgttt ggatatgttc aattctgttg caattttatg taaaggctga taataccaca 60
 agataaaatg gaccatccat gacacagagt cagcacaggg aactctgcgt cagatcacac 120
 agctaagcac tcatcattcg aacaagttca agaaaactag ataattattat tatattgggt 180
 aacgctactt gtccatcctc actcctcctc ctcatcgcca gcatcgccgc caccgcttgc 240
 cttctttctga ttctttctct tcacccttcc tgcggggcct ncaccgaatg ggcttgacag 300
 tgaaaagtca atgtgcttct cagactccac cctcaccatg aatgatgggc gccggcgggc 360
 tgtacccta cgcgaggtag ctgaggcagc cgcagtgcag cccgctggcg gcggcgccct 420
 actacgcc 428

<210> 12532
 <211> 86
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-A6

<400> 12532

cgttgagctg tgtgtattac acacatttat ttaatttatg tagcaacgcc atttgttggt 60
 gattaacgag tgatcgagca agctta 86

<210> 12533
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-B1

<400> 12533

ttcccgggtc gacgccacgc gtccgggagg aatacgtcac tgccatcaag gaggaaatca 60
 acaaggctcg taagcttcaa gaagagcttg acattgatgt gcttgtgcat ggcgagcctg 120

agagaaacga tatggttgag tacttcggtg agcagctctc cggttttgcg ttcactgcc 180
atggctgggt gcagtcttat gggtaagggt gcgtcaagcc tccgatcatc tacggtgacg 240
tgagccgtcc caaccccatg accgttttct ggtcgaagac ggcacagagc atgacgtctc 300
gccaatgaa ggggatgctg actggcccag tcacaatcct caactgggtcc tttgtccgga 360
atgaccagcc gagggttgag acttgctacc cagatcgtct tgcgatca 408

<210> 12534
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-B2

<400> 12534

gaagaggaag gagaaggcca aggttgcccta cgagaggaag aagcaattgg ccaagctgcg 60
tgtcaaggcc gagaaggcag ccgaggagaa gttggggctc cagttggaga ttcttgcccc 120
tatcaagtac tgaggagctg tgctttgtca tcagttttgg ggaacatcta gtctttgttt 180
taagtgttcg gtaacagttt gtgacagtat aatctggtaa accgtgttat ttttctgcc 240
ctcctatttg aacacatttt ctagctggtg aatgaactgt ttggtcgatc ttgttcagat 300
gtctgggttcg cattcgcatt ctgagagatt tcatgtctcg tgctaaa 347

<210> 12535
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-B8

<400> 12535

tggacctctg acatctcgga ggacctgct gaagagatta gggaggcgcc caagcgggac 60
tcgagtgagg ggcagtaaag ccggctttat gtgcctagaa actagtagct agtgtttgct 120
gctgtcgaat gacactatgc aatgtgatct ggaacctggt ttcttggggtg cgacgcttgt 180
agccgtgtta tgactgtcgt ccgtaaaatt tgggggctcc ccgtaaggga tgctgcctgg 240
caaggcctcg gtgtcccacc tcgtctgtgg cgtggggcgc tggagcccgg tctggttggg 300
ttgggaagcc ctttaaactg ttgtcacttg cattttacct ttccatcgc tgtttattgt 360

gagtggctcct atatcaatgg ctggtctcag tggctctatac gt

402

<210> 12536
<211> 80
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-C5

<400> 12536

aaaaaaaaa aaaaaaaaaa aaaaaataa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

aaaaaaaaa aaaaaaaaaa 80

<210> 12537
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-C7

<400> 12537

tgaaaacgta cgtgcctgaa attattggat ctggggagggc tattgatgcc gcagaagcgg 60

agacttgtgg gaagaagatt gacaagaatg gggatgctgg tgcccgtgga agagaggtat 120

ctgccaatgt gagtgccaaag aggaagagga ataagaatgg gcaggttgag gatgatgttg 180

cgatgcagga agaagttcat gtggagatag agaaagagaa gaggaaaagc attgtgattt 240

ctgctaataga cagccatatg gctggcgaga atggtgaaca gatgggcaaa cgtagtttgg 300

aaaataaggt gaacgaagcc agtttggaca acgtgaacgt taagatgggtg aagactgagc 360

agaggaagat gaagagcatg aacggtgatg gtgaaatcag tactg 405

<210> 12538
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-D10

<400> 12538

attcccggtc gaccaacgcg tccgctttgg tgcatttgtt ggcacaaaac atcagggcac 60

aacaactaca acaactcgtg ctagcaaacc ttgctgccta ctctcagcaa caacagtttc 120

tgccattcaa ccaactagct gcattgaact ctgctgctta ttgcaacaa caactagtag 180
 taccattcag ccagccagct gctgcctacc ctgagcaatt acttccattc aaccaactag 240
 cagcattgaa ctctctgac tatgtacagc agcagcaact actaccattc agccagctag 300
 ctgctgtgag cactactgcc ttcttgacac agcaacaatt gttgtcggtc tacctgcacg 360
 ctgcgcctaa cggtggcacc ctcttacaac tgcaacaatt gctgccattc aaccaacttg 420
 ctttgacaaa cccagcagcg ttttacc 447

<210> 12539
 <211> 305
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-D11

<400> 12539

ttaagcgcat gggccaactc acaacatata gagtccacaa gtacaacaac tattgctggc 60
 aaaagatgct gctactcac agaaccaaga gtttctgcca gttctgctac tagctgcatt 120
 gaactatgat gcttataagc aacaacaact aggactacca ttcaagcagt catatgatgt 180
 ctaccctcag taatttggtta cattcaacca actaccagca tggaactatc aggtctatgt 240
 acaggcgtaa caactactac cattcaggca gctaaatgat gggagccctg atgccttctt 300
 gacac 305

<210> 12540
 <211> 207
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-D12

<400> 12540

cacgcgtgcg gaccaagctg atactatgga ttgtgtgatg aaagttgaaa aggcaccttt 60
 ggagtcttat gctgacattg gtggcttgga tgctcaaatt caagaaatca aagaagcagt 120
 tgaacttccc ttaacacatg ctgagctatc tgacgacatt gggatcaggc catcgaacgg 180
 aggtatacta tatcggaac ctggaac 207

<210> 12541
 <211> 340
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-E1

<400> 12541

tggaaagcta aggtggcacc ggtgtttcca agaatactag ggcatgaggc gtacggggta 60
 gtggagagcg tgggggagca cgtggagggc ttcgcggcgg gggacaccgt ggtgccgacg 120
 ttcctggggc agtgcgagcg ctgcgccagc tgcgcgtcgg agcacagcaa cgtgtgcgac 180
 gcggtgccgt tcgtcatcgg ccccgggatg ccgcgcgacg gcaccacccg gtttcggggac 240
 gcgcggggga gcccgtgca cgacctctc gtcgtcttca gcttcagcga gtacaccgtc 300
 gtggacgtga accaggtggt caaggctcgc cccgtcgtgc 340

<210> 12542
 <211> 192
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-E7

<400> 12542

ctgtgttttg tgtcttagtg tccagagaga taaaggtttt tgcctctgca agctttgctg 60
 ccccgtaggac tgatgatatt tttggatgat ggtattgtat tgcaaaccct tgactttggt 120
 cctactagtt atgagaaggc tgctgtgtta aaaatatacc atataaaaaa aagaaaaaat 180
 aaataaacta ac 192

<210> 12543
 <211> 330
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-E8

<400> 12543

cgaaggcaaa cgagggcatg ccgccgaggc accaacggtg gctaggggtg gatggaacag 60
 cgcgtagggga ctgaagtcag atggagaggc tggctgagtg ctgtggctcc gccggccaat 120
 gcggaaggag gcgtagcgtc ggggtgtggc cgaaatttac tgggcgggag gggaccaatg 180

gattggatac ggaaggaggc gtagcgtcgg gtgcgtgctt ggatggacat ggactatgca 240
 cccatctctg ccccatgaac cgttgggtg ctttttcgtg gacaagcact gtagaaatat 300
 tgcagaacag aagtgataat ataatacctg 330

<210> 12544
 <211> 278
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-003-Q1-K1-F11
 <400> 12544

cgagcgctg ggctgaattt cgacaaggac gcgaggaaaa gacgaggaac ttgccggcgg 60
 cgcgagtacg aactgataaa ggggtggcttg ccaagaacat gcagcggtcg gttgaagcag 120
 ggcggcgagc gtcttttagc ttgtttatgt gtgtgagaag gacttcttct ttttcgtggg 180
 tttagcgctg gggaaagagc tccttttatt aagctccttt aaccaccttt ttttttgggt 240
 gttcagattt tctatctttt cagttcgacg ctttttgt 278

<210> 12545
 <211> 457
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-003-Q1-K1-F3
 <400> 12545

cccggtcga cccacgcgta cgcggacgcg tgggctgaac tgtccgtcgg cgtctaggcg 60
 gccccgcgcg tcggacatcc actcgctcct gaggtcgatg agcctctggc cggcgtcggt 120
 gacggtgccg tcggcggtga cgagcgcggc gtccctgccta cacatgtggc cctgcatgaa 180
 cccccagagc acgacgccct gcaccgccgg gtgcgcgaac gcctcgcgca ggaccacctc 240
 taggtcgtcg gcgcggagcg cgtcatcggg ctgcgagacg tcgacctcg tgaaccagac 300
 gggcaagccg gtggcggcgt agaccgtgtc gagcgcgtcg cagatgacct cggcgacggg 360
 gtgggtgacg tggccctgca tcccagcgcc gtcgaccgg gcgccgtccc gctgcagggc 420
 tcggacgagg tcgacgtacc gctgcggcgt ggtggac 457

<210> 12546
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-F6

<400> 12546

gctgcgaaga ctatatttcc gatctctgtt tcgtgcatac taggctgcag gggcaagatt 60
 tttctccttc aaagttcatg cttctaagga gaactcttga gaagcacttc aactcatcca 120
 ctttttagagt cgggagctct aatgcaacgg gtcattgcttc tgattcgtg gttccttcaa 180
 gcacgaaagt tgaagattta acctccagtc ggcaggacat atttcttctt cccctgagag 240
 ggcacgacga ctcgacaaag tttgagtatg gaacgtactc gtgcatgcta ggcattgatcc 300
 gtgatcagat cctgtcatgg cgggcgaggt cattctcgaa gaacctctcg gagcgtgact 360
 ggctgaggag ctcagcgagg atctgggaca tggatgaaga gtccccctc atctcggagt 420
 actgcaaggc gc 432

<210> 12547
 <211> 364
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-G1

<400> 12547

ccgtaccccg tccggaattc cgggtcgccc acgcgtccga ccatacttca ttgcaacgac 60
 atttatcaga tagcacggtg gggaaaaaaaa aaaaggctcag aaacacaaaa cgagaagaat 120
 agaaaaaact gctatcgccc ctacgaacat ggattaccac ttgccaaaat ggggcgtcca 180
 ctttataaga tccaatgctt agcacactct catgcaagat ggctgctttc ctatagagcc 240
 ccctaaatta aggatactgg cctgtgcatg tcaccacaga gacttgggaa accatggcct 300
 ttcccaatth aacccttttg ctgaaaagcc tcgttttgac agctaccgtt aaactgataa 360
 ggcc 364

<210> 12548
 <211> 471
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-H1

<400> 12548

taccgtccgg attcccggtc gcccacgcgt ccgcccacgc gtccggcggc ggctgcggct 60
gccagccacc gccgcccgtt catctaccgg cgccgggtgca tctgccacct ccggttcacc 120
tgccacctcc tgtgcatctc ccaccgcggg tccacctgcc gccgcccgtc cacctgccac 180
cgccgggtcca tgtgcccggc ccggttcacg tgccgcccgc accatgccac taccctactc 240
aaccgccccg gcctcagcct catccccagc cacacccatg cccgtgccaa cagccgcacg 300
caagcccgtg ccagctgcag ggaacctgcg gcgttggcag caccgccatc ctgggcccagt 360
gcgtcgagtt cctgaggcat cagtgcagcc cgacggcgac gccctactgc tcgcctcagt 420
gccagtcggt gcggcagcag tgttgccagc agctcaggca ggtggagccg c 471

<210> 12549

<211> 212

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-H12

<400> 12549

gtttgcttct gtgcagttgc ctaataagcc cattcgttgt aaactagcta gttctaactt 60
aagaaaagctc cctcagggcc tatgcatgag tctctgatta ttgtgcagat gaactgttct 120
ggacattttg aacatgcaaa tgtggaagcg tcaactgtcag ttgaattatg tttcagccga 180
attgagaagc gctaaaaaaaa aaaagaaaaa tt 212

<210> 12550

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-H2

<400> 12550

cggaattccg gtcgacccat gcatccaggc acgcgtgcac gcacgcgtga gatttcagct 60
tttatgaccg catggctcca atttatacac gggaccacaa catggcacct tcgaagggtc 120
ttgatgctga tgtgacagct aatagtttaa cataccgtaa tgttactacg tgatacacga 180

gtaagaataa tgaaggtgaa ctccgatctt gcatatctga aggtaacaag gttgatgtca 240
agaacatgct gaggaaggtc aagtgagtga cattacatca gaataagaac ctggcctaata 300
atgggatgct ggctattagc attgggaaat attcatgcat tatgatagcc atcattgaca 360
agaatgctcg aattggagac aatgttaaga tactcaatgc tgacaatgtg caagaagctg 420
caatggagac agactggtac 440

<210> 12551
<211> 276
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-H6

<400> 12551
taccggtccg gaattcgagg cacgagccac gcgtccgcgg acgcgtgggc ggacgcgtgg 60
gtgctgggca agaaaagttc ggtggcetta gggatggcta ctacattcat ggtcagtggtg 120
ccatcattat gtttgatgtc acttctaggg tgacatacaa gaatgttccg acatggcaca 180
gggacctgtg caggggtctgt gagaacatcc ccattgttct ttgtggtaac aaggttgatg 240
tcaagaacag gcaagtcaaa gccaaagcaag ttacat 276

<210> 12552
<211> 184
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-H9

<400> 12552
cccacgcgtc cgcttaccta cttatctttg tagcttacgt ttctatttta ttctgtcatg 60
aaaactaaag tcttatgtat ggtcattatg tactattttg gttctgaaaa tatttgttta 120
tgttatgaaa actattggtt gaaagaatgg tgattacggt tttggcttga aggttcagaa 180
gtga 184

<210> 12553
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-A2

<400> 12553

tcggttcaga ttcccgggcc gaccacgcg tacgatccat atcagcatat cggcaattct 60
cttagaggat cgtcgaacag aacaccatga agggggacat tgatctcgtc gtgtgcctgg 120
ctctgtcagc tgccagcgcc totgcaatgc agatgccttg ccctgcgcg ttgcttcagg 180
gctagtacgg cgctggcgcc ggctgacga cgatgatggg cgccggcgga ctgcaccctt 240
acgctgagta cctgaggcag ccttaatgca gcccgctagc tgcgacgcc tacta 295

<210> 12554

<211> 468

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-B4

<400> 12554

accggtccgg aattccagtc cggactcaag ccacgcctac gtgggaaggc cttgaactt 60
aggttttcat gccactcaac cgcttgaatg ctgctcgtag gcgggcattc actcaatata 120
gaatgtctgc gcttttagttg ggttgggctc caaagtttca atgttccagc attcctcagt 180
cgaaatttac aatgcctgca aaccacatcc tactcttgag attcacaacg ccgatatgc 240
acaaagatgc cccaaagggt gctgtcctcg tgtttcgtgc tctgattgtt gagtcttcaa 300
tgagagctga ttccagatat atagagggtga acaagcttat gattattacc tttggtaatt 360
tggtgcaaca taatagagggt gaacaagctt attaaaagaa gatccttgta caaatcaaga 420
gttcaatcca atagatgaaa cgatattgtg attctctcaa tgggtggct 468

<210> 12555

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-B8

<400> 12555

tggggaagttc cttgaactta gtttttcaag ccactcaacc gctagaaggc tgccaatatg 60
cgggcattca ctcaatacgg attgtctgcg ctttttttgg gttgggctcc aaagttgcaa 120

tgttccagta ttcctcagtc gaaatttaca atgcctgcaa accacagcct actcttgaga 180
 ttcacaaccc cgatatgcac aaagatgccc caaggttgct gccctcgtgt ttcgtgctct 240
 gattgttgag tcttcaatga gagctgattc cagttatata gaggtgaaca agcttttgat 300
 tatttctttt gttaatttgg tgcaacatat agaggtgaac aagcttatta aaggaagatc 360
 cttgtacaat caagagttca tacaatagat gaaacgatat tgtgattctc tcaatggtgg 420
 cttcatgagc aagcaatc 438

<210> 12556
 <211> 284
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-C2

<400> 12556

taatattttc agcattcaaa aacacacctt gctattcgca ctagcaacga cctaacacca 60
 atggctacca agtatattag ctcttcttgc tctgattgcc cttttagtga gctcaacaga 120
 tgcattcatt attttatagt gaatacttgt ttacattgcc tgtttaccac aatatattct 180
 tgagattaat aacatagttt tgcacaatga tgccctactg ttgcttacat tgtgtttctt 240
 gctcttattg atgattcttc aatgatagct gattccagtt atat 284

<210> 12557
 <211> 115
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-D11

<400> 12557

tcgaaagctt gtccttgatt ccaagttcca tctatgagaa cttggacata ggatattgga 60
 cgtcattact ttgaagaaaa agccaagctc tagaagtttg ccaaagattc ttgcc 115

<210> 12558
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-D5

<400> 12558

tgaacacacc acccctcgtc tccgcacgga ggccgtcctc tctctcctc tgcgtccgcc 60
actgccgccc accgctcgcc caccgcgcgt ccattacctc ggccggcgat ggccgacctc 120
tccaacaccg gctccacctc acacgagcag cccccccgcc taggcggctg gctggtcggt 180
cgtcgagcag ctagcggcgg cagcgcgcgg aggcgtctc actctcctc tggggcgcc 240
aggagatgga ggccatcgtg ggcgcccg cgcgcgcg tggccgtgcc tgggcccggc 300
tcgagaagcc gccgcgcgcc gcttgctg cagagctcc gacggcgagg ctgcgggtcg 360
cggcgagcag gccgcggagg ctggtgctgc tgggcgcga tacgcggagg gccgcggatt 420
atcctgccct ccgttgcg 438

<210> 12559

<211> 477

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-D7

<400> 12559

taccggtccg gaattcccgg ggcatagat gcgtagcggc acgctttcgg agaccaacaa 60
gcaacataga aagtggaatc cagtagcatc aatagagcat caatggcgac caagatttgt 120
ccctacttat gctccttgct ctttctgcat gtgttgctaa cgcgacgggt ttcctcaat 180
gctcacaagc tcctatagct tgccttgta cgcatacct tacatcaatg atagctggac 240
tatgtgaaaa ccagctctt caacctata ggctccaaca agcaatcgca gcaagcaaca 300
tacctttatc acccttggtt caacaatcg cagccctatc tttggtgcag tcattggtac 360
aaaccatcag ggcacagcag ctgcagcaac tcgtgctacc tgtgatcaac caagtagctc 420
tggcaaacct ttctccctac tctcagcaac aacaatttct tcattcaac caactgt 477

<210> 12560

<211> 211

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-E12

<400> 12560

tacggtccgg attccggggtc gacccagcgt ccggtacgag gctaaatgaa aggcttaggg 60
 ttatattgcg caaggagata ccggggacca tggaaggat tcagacagtg attacaagta 120
 gcaacgacga tacttaatca ctgaaatttg cctagtgtaa gagctttgat aaagttgaag 180
 gcagagaatg gtatgagatg gttatgagaa g 211

<210> 12561
 <211> 66
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-004-Q1-K1-E4
 <400> 12561

cggaacgctg ggaaaaaaaa aaaaacatt aataagacaa aaaaaaaaaa aaaaaaaaaa 60
 gaaaag 66

<210> 12562
 <211> 414
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-004-Q1-K1-E6
 <400> 12562

aagaaatcta aaagagggca ccaccaatga tgggttatag ttcaataata aagttttttg 60
 tctgatgttt gtggcttccc agaaataata aagtcattt ctaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaataaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagggccg cccgttttaa 240
 aggatccaag cttacttacc cttccatcca acgtaatacc ttttctatag ggccccctaa 300
 atcaaattca ctgcccgtct tttaacaact tcgaaactgg aaaacccttg gctttcccaa 360
 actaaatccc tttgcagaaa atcccccttt cgcaagttgc ctaattacca aaaa 414

<210> 12563
 <211> 378
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-004-Q1-K1-F2

<400> 12563

tttgaacaa atggatcttt gctctccaaa ctgagtacca aaataaaggt taaataccag 60
gtatcaccat tttctgaat gcctcgtaac gagttcatat gctataacac aaggacatcc 120
cattgttgct gcagccacaa gagtccagaa caacagaaag gcaagattta atccaactca 180
tacccaaccg tgcagtttct tttattacaa aaaggaagg agcagcattc ataggtgtgg 240
agcaccgatc aacttgaaac caaaaccaga ggtgcgttgg gcctcaaaga ttatcgtcga 300
tcaggcctac aggaagtttc tgatgtccaa tttcctgaca tcaggcatct cctcatcttg 360
aaactcctcc ctcttgag 378

<210> 12564

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-G10

<400> 12564

aattcccggg tcgaccact cgtccgcca ctgctccggg ggacactatc ctgggttata 60
gagcggttca ggttaattgg aaagatctgg actattgcaa tgtttgtgat atggatgagg 120
agtatgaaga caacttattc ttgcaatgtg acaagtgtcg tatgatgggt catgctagat 180
gttatgggtga acttaaacaa ttggatggag gactttggct ttgcaacttg tgtcgaccag 240
gtgcacctcg tgtgtctcca aaatgctgtc tatgtccagt cacagggtgt gcaatgaatc 300
ctacaacaga tggccgttgg gctcatctcg catgtgctat atggatccct gaaacatgct 360
taaaggatgt aaagagaatg gaacctattg atggactgag cataatc 407

<210> 12565

<211> 297

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-H10

<400> 12565

ataaaataaa aaaatatata aaaataaaaa aaaaaaagaa aaaaatatat aaaagagaaa 60
gggtagataa acatataggg ttgatgagtt gaatattaga tagttataat gagtgagatc 120

tgagatttga aggcataatc gattacactt ttttgaaggc tatcaacact gggaataggg 180
 ctggccgttc tataggatat atgcttacgt tcgcttgcat gttacgttat atctctttta 240
 tagtgttacg taaattccat tcaactgttg cgtttttaca acttcctgac tgggaaa 297

<210> 12566
 <211> 400
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-004-Q1-K1-H2
 <400> 12566

tgctgctggc ataacattac gacaatagtt catccgttcg acaacaaatt ttggcacaac 60
 ttccacaggt tcagcacttg aacaatctaa gttaccaaca caaggcattt taagttcaga 120
 gaaaagtgag aaataaacac atggccattt ctagtccatc tttactccaa caaaacctta 180
 gatgctgctc ggggtacatga acactctgac cttgcgcccc atggactcat gcgggaggtt 240
 ggacttgaac ttggcacgga cgacgcccga gtttacgtgc ggacgggtga ccttgcccca 300
 gatgcacctg tagcgggtct catagctctt ggtcttggcc ttgtagatgt acgccatgct 360
 cttgccagcg taccacgoga catccatatt ggtgttcacc 400

<210> 12567
 <211> 378
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-004-Q1-K1-H4
 <400> 12567

gtcacgcgtc cggaaccccc ctgcttattt gcagcagcat atactactac catttagcca 60
 gctagctgca gcaaaccgtg cttccttctt gacacagcaa cagttgctgc ctttttacca 120
 gcagtttgcg gctaactccg caacctctt acaactacaa caattgttgc cctctgtcca 180
 acttgctttg acagaccag cggcctgcta ccaacaacac atcattgggtg gtgccctctt 240
 ttagattgct tattagctgt aattcaataa tatagttttt tggatgatgt atgtggccaa 300
 ccagaagtac gatgttacat ttccagattc taatgtgata ttggtctcca agggagtccg 360
 attaaagaag ccgaaatc 378

<210> 12568
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-004-Q1-K1-H5

<400> 12568

 tggctacttc aacgaggcca atttcatcgg agaaggtgga ttcgggaagg tgtacaaggg 60
 caagatcaac ggacagatgg tggcagtga gacagctcgt cgagacggcg tgcaggggag 120
 gaacgagttc ttggtcgagg tgctcatgct tacagtgttc aaccatcgca accttgtcag 180
 cttggtegga ttctgcgcgc aggggggacga gaggctgctg gtctacgagt acatgccgtt 240

 cggaagcctg gagagccatc tgtttgacgt gcctctcggc aagaaaccac tcgactggaa 300
 cacgcgcgtg aggatagccg tgggagtcgc ggaaggggtt tcctacctgc acaacgtagc 360
 cgacccgcct gtgatctacc gcgacatgaa ggccgncaac attctgctgg gcgaggactt 420
 cagcccga 428

<210> 12569
 <211> 317
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-005-Q1-K1-A1

<400> 12569

 ccgggtcgac ccaagccttc cggtgaaacc cgcggcggtt gaatgggtcat tagccccgc 60
 aggaacataa gagggggggtt ttgtcaagac ccacaagagc aatgcatact tcaagcggtt 120
 ccaggtgaag ttcaagagaa agcgcgctgg caagacagac tacagggcca ggataaggct 180
 gattaaccaa gacaaaaaca agttcaatac acccaaatac agatttggtg tgcgatttac 240
 caacaaggac atcacagcac aaatcatatc tgctagtata gcaagtgata tggttcttgc 300
 ttctgcttac tcgcatg 317

<210> 12570
 <211> 415
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-005-Q1-K1-A11

<400> 12570

ttccttattg gtgacatcga agccagccag ggtgccttcc agtactttgg cctgaaagag 60
gaccagacac cccttatacct catccaggat ggtgactcca agaagttctt gaagggttcac 120
gttgaggctg accagatcgt cgcttggttg aaggagtact ttgacggcaa attgacgccg 180
ttcaggaagt ctgagcctat tcctgaggtc aacaatgagc ctgttaaggt gggtgtcgct 240
gacaacgtcc acgacttcgt cttcaaactc ggcaaanatg tccttattga attctatgcc 300
cactggtgcg gacactgcaa gaagctggcg cccatcttgg acgatgcagc caccactctc 360
cagagcgacg aggaagtcgt gattgctaag atggacgcga ctgccaatga cgttc 415

<210> 12571

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-A3

<400> 12571

tcgaccacg cgtacgcgta cgcgttcgga ccaacatgca acatagaaag tggaatccag 60
tagcaacaat agagcatcaa tggcgaccaa gatattttcc ctccttatgc tccttgctct 120
ttctacatgt gttgctaacg cgacaatttt cctcaatgc tcacaagctc ctatagcttc 180
ccttcttccc ccataccttc catcaattat agcttcaata tgtgaaaacc cagctcttca 240
accatatagg cttcaacaag caatcgcagc aagcaacata cctttatcgc ccttggtggt 300
tcaacaatcg ccagccctat ctttggtgca gtcattggta caaacatca gggcacaaca 360
gctgcagcaa ctcgtgctac ctctgatcaa ccaagtagct ctggcaaacc tttcttccta 420
ctctcagcaa caac 434

<210> 12572

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-A4

<400> 12572

cgcggttcgcg gacgcgtggg tcttgctggg cttgctgcag gcatggccat tggcatcggt 60
ggtgatgctg gtgtcaaggc gaacgctcag cagccaaagt tgtttgtggg catgacctc 120
atccttattt ttgtgaagc gcttgccctc tacgggtctca tcgtcggcat taccctctcg 180
tcccgtgccg gccagtcccg cgcagattat aggcacgttt cagatgtcaa caccgtgccg 240
tcgacagttg cctggtcgta gctgggtcat gttctatata catgagacac gaagctggag 300
cactttgaga ggcttacttt tatgctgtct agttctccat cttctgttga gtcgagaaaa 360
caagaaaggc tgtgtaatca agggatgact ttacccttg tgccattctt ttccctgtcg 420
aggtgggggg 430

<210> 12573

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-A8

<400> 12573

aaacagtcac gtctcccaga tctaactccc cccgactcac gaatcccaga gagcctccat 60
ggcgacgcac cgccactgcc tcccactcct cctcgtggcc gccgccctcg ccctcgccgc 120
cggccctgct cgcgccgcgc ttggccggcg gcccgggccg gctgtgggccc gggtggaacc 180
ggatccttgc ctgaaccaat tggaccttcc agaacctagc cgggtgggccc ctgggccagc 240
caagccccca aagcctggcc gccaccggct ggcggttccg cgggttgtgc cccgctaacc 300
acaagtctcg ttccggatga actaccggct tttta 334

<210> 12574

<211> 155

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-B3

<400> 12574

cgggtcggac ccacgcgttc ggccacgcgt tccgcttgga ggtcctgcac aacgtgcttc 60
gacctcaagc ccgacatcca ggtctccaag aaccagatcc tgtactgtac aagcttgagc 120

tggagtgcgg acggaagcac catctagcct gcgta

155

<210> 12575
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-B6

<400> 12575

aagcgcaagc gcgaggcgcg cgacgtgcac aggcaactcga acgacgcccg caatgtgatt 60
ggtgctaagg gcaatacgtt cgccaagaaa cgctatgctg agaacgctca tatgaagaag 120
accctgaaaa tgcacgatga atcacataat cgacagaagg ttgatgatga tgtccaagag 180

ggtgctcttc ctgcgtatct actggatcgt gatcagactc agcgtgctac ggtactcagt 240
aacgcactca agcacacgat gaaggaaaag gctggcgaat gggatgttcc gctgccaaag 300
gtcatacctg ttgct 315

<210> 12576
<211> 282
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-C11

<400> 12576

aaaaaaaaag aaaaaaaaaa aaaaaaatat aaaagaaaga aaaaagattg caaaaggaac 60
ggggtgataa aaactgtgcg tgccaattcc tatgctccat tatgatgccg cgtttatttg 120
atccatgggg cgaagtttta catctacgcg acggggaaaa ccgtggcggt gcccaactta 180
ttcgctcgc agatcatgcc cgtttcgcaa gctggagtaa tatctaataag gctcgtccg 240
ttggcctttg ccaacagtag cgcagtctga ttggcgtttg gg 282

<210> 12577
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-C12

<400> 12577

tgaaaaccca gctcttcaac catataggct tcaacaagca atcgagcaa gcaacatacc 60
 tttatcgccc ttgttggtgc aacaatcgcc agccctatct ttgggtgcagt cattgggtaca 120
 aaccatcagg gcacaacagc tgcagcaact cgtgctacct gtgatcaacc aagtagctct 180
 ggcaaaccct tctccctact ctccgcaaca acaatttctt ccattcaacc aactgtctac 240
 actgaaccct gctgcttatt tgcagcaaca actattacca tttagccagc tagctactgc 300
 ctactctcaa caacaacaac ttcttccatt taaccaattg gccgcactga accccgctgc 360
 ttatttgcag cagcaaatac tactaccatt tagccagcta gctacagcaa gccgtgc 417

<210> 12578
 <211> 332
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-C3

<400> 12578

cacgcgtccg gccctccaag taactgcgaa gagcatagt catgaggaat gagctttag 60
 ctagctcata tgtctgaata ataagcacag caagaagatg aatgcatttc tcggatcggt 120
 catccggaac aataattaa ggggatccgg atttggtctt gtgatataat taacgattcc 180
 tgttatactt ggaagtagct aggctcgctc ccatccaatg caagcaaaga tctgatctcc 240
 caacgtgcat gagaaaatgt gagcgattta cttcaccggt ccttcctcta attaaatgga 300
 aatgtgaagt ggaacataag aaattaaggt ga 332

<210> 12579
 <211> 291
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-C4

<400> 12579

tccgggtcga cccaagcctt cggccaagcc ttccaaaggc caggtaacct cggtatctggc 60
 ggacaatttg ggcttcagtc gcaaatgttg gcgcaggcta ggcaaaaggc catggcacia 120
 aacaccaat tgaataatgc taatacagct caagtgtgct aagggatgca acccatgggt 180
 gtcattgggt ctatggggat gaaccagacg agaccgaatg taactatttc ctatgggtgc 240

caacaaaagg ttgcccaagc acaaatgaag gcacaagcat ttaacaacc t

291

<210> 12580
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-E1

<400> 12580

ccgggtcgac ccacgcgttc ggccctttgc aagtatagtc tctctgctaa gcgaagcgaa 60
gcttcaagct agtctcggcg gctctagaag acgatgggca aggacgacgt gatcgagagc 120
ggcgctggcg gcggcgagtt cgctgccaaag gactacacgg acccttcccc ggcgccgctg 180
atcgacgcgg cgagctggg gtccctggctg ctgtaccgcg ccgtgatcgc cgagttcatc 240
gccacgtgc tgttctgta catcacggtg gccacgtga tcgggtacaa gcaccagacg 300
gacgcgtcgg cgtcggggcg cgacgcggcg tgcggcgggc tgggcgtgct gggca 355

<210> 12581
<211> 465
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-E4

<400> 12581

ccgggtcgac ccaagccttc cgtgaaggtc ctccgggggtt cggttccttg gttaaccgga 60
tcaagatggc ggcgtcggat gttgagtcct gctgcttcgt cggcgggctc gcctgggcca 120
cggacgacca cttccttcac aacgccttca gcacctacgg cgaagtcctc gagtccaaga 180
tcattctcga tcgggagaac cataagttcc gccggttcg gttcgtcaac cttttcaacg 240
aagaagccat tccgaaccgc cttcaaggcc ttgaccgcaa aggagctgaa cggccgcacc 300
ataaccgtca acgaggccca atcccgcggc ggccgtgaag gcggcgggcg tgggtacggt 360
ggtggccgtg gaggcggcg ctacggcggt ggccggcgcc gtgatggcg cggcggctac 420
agcgggtggc gcggctacgg tggcgggcg ggctacgggt gtggt 465

<210> 12582
<211> 262

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-F3

<400> 12582

gagggtttttc tttgtttggt tttttttttt tttagaaatg gactttctta tttctgggaa 60
 gccaccaaca ttagataaaa aactttatgt ttgaactata actcatatga aatctaaaag 120
 agggcaccac caatgatggg ttgttggtat gaacactgat gggtttgtca aagcaagttg 180
 gttgaatggc atcaattggt gcaattgtta taagggtcca agctttggcg caacgtgctg 240
 gttgaacggg caccactgtg gt 262

<210> 12583
 <211> 303
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-G10

<400> 12583

ttcactcgtt cgaaaaaaaa aaaaaaatga gatataaaaa aaaaagaaaa aaaaaaaaaa 60
 atgaaaatga gtatgctaaa tctgttgtaa gatcaccttg tattggacct catacatatt 120
 atttagcgcg atctaaatga acattcagtg gctgcatttt taagtgcac cataatgtga 180
 aaactgctgg ggctaacgaa attaatctga ttgcatctca tcaaggttta tcaagctggg 240
 gtaatatcga agaggccggt acagattgac gttccgaaca ttttgacacc ctgaatgggg 300
 aat 303

<210> 12584
 <211> 232
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-G12

<400> 12584

ttcatgatat ctgggaaatc tcctctatcc atccctctct atctatatct gtaataatgc 60
 agtaagacga cacacattat catgtgtggt atgaccaata atatatgcat gatcataata 120
 aagtttttgg ttttaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaaatat aaaaaaaaaa ataaaataaa aattatatac aaatgtataa ag

232

<210> 12585
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-G6

<400> 12585

tagcaacata gaaagcacia tagtgtacca acaatggcag ccaaaatatt ttgcttcctt 60
atgctccttg gtctttctgc aagtgttgct accgcaacca ttttcccaca atgctcacia 120
gctcctatag ctcccttct tccccatac ctatcaccag cgggtgtcttc agtgtgtgaa 180
aaccaattg ttcaacccta caggatccaa caggcaatcg caacaggcat cttaccatta 240
tcacccttgt tctccaaca accgtcagcc ctattacaag agttaccttt ggtccatttg 300
gtggcacaaa acatcagggc acaacatcta caacaacttg tgctagcaaa ccttgctgca 360
tactctcagc aacatcagtt tcttcattc aaccaactgg ctgcattgaa ctctgctgct 420
tatttgcaac aacaactacc att 443

<210> 12586
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-H3

<400> 12586

tggaaaattg caaggatgaa tttttgaagt ttgatctgga gtatgaccag attgttgtcc 60
tcgagacgaa aactgcaaag gctgctaccc aggacattct gacgacgcac tgtatacctt 120
ctgcaacgtc ggatgacctt aaggcctagt gggaggagaa gggagcatga cgcagccctg 180
ggcctgagcc agggccatca ggtgggcaa tagtttgggc cacaatttcg gctgaattga 240
ttagcgcagc gtacgatccg tgatgaagag gaacccaat gtttatctgt ttaagttaaa 300
tatcttttga agggttgtgg atgtgagagt gctggctggt gtctaaagct ccgccattat 360
agaaggtttg agggactgtc actgtcagat aacaataaac tggagttggt acagacagag 420
tcatcgtgaa aacgatagtg tct 443

<210> 12587
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-H6

<400> 12587

tagaatctcg agatatgatc agactccgac tacagcctgg tctcagagag taaatgagta 60
gagccaaaca tattatggat gtggatgcc aactggcatat acggatgaga cctagacaca 120
tcatagatgc taacgaagtt caagagagaa atgtcgagtg cagaaaacaa atgctatgta 180
atatgtacca gggttcaa atgtattgct atgacagttt gcgcctaact aagagatctt 240
ttagtgactt gaggccatc ttacgggaaa agagtggcct acaggatacc ctaaattgtgt 300
cggtagaaga aaagcttaca atttttctgc ttatagtagg tcataacacc aaaatgaagt 360
tgatccgtag cacttatggg tgggcccttg aaccaatcaa tcgacacttc atcgaagtgc 420
ttatagggat tctatcttta agtcatg 447

<210> 12588
<211> 154
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-H9

<400> 12588

ctcaactacg aagttctatc gtctctagct tgattgtaat ttttttatga ggggtgcggtt 60
ggataagcaa atagcttggt gagttggcgt tcgattgta tattgagtga gaactgagat 120
ttgaaggcat cttcgagaca cttttttgaa ggca 154

<210> 12589
<211> 417
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-006-Q1-K1-A2

<400> 12589

gggtcgaccc acgcgttcgc ccacgcgtnc ggttttactt gatgtgtaac catgggacga 60
 tgagactgac atggccaagc ttgaggaagc tgttaggagt gttcagatgg aagggctgct 120
 ctggggcgca tccaagcttg tcccagacgg atatggtatc aagaagctgc aaatcatgat 180
 gaccatagtc gacgatcttg tctctgtcga cactctcatt gaggactatc tgtgcgctga 240
 gccagttaac gagtacgtcc agagctgcga catcggtgcc ttcaacaaga tctaggcgctg 300
 actttcgate agtccttccc ctgggggtgct ggcgatgggtg gtggctgggc aatgcaccag 360
 cctaattttt ccataacttt atgtctgctt tgtgttgccc agtgatattg ccgtgag 417

<210> 12590
 <211> 222
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-A9

<400> 12590

cccacgcgta cgcttttatac tgtaataata aagttctcat tctgatattg gcaacttctc 60
 agtgataaaa gatcagagat ctatactaaa aatacacaag aaataataaa aaaatagaaa 120
 aaaaaaaaaa aaaaaaaagc tatagaaaaa agaaaaaaaa aaaaaaagta aaaaaaaaaa 180
 aaaacaaaaa aaaaaaaaag ggggggcatc ttttaaggat cc 222

<210> 12591
 <211> 341
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-B3

<400> 12591

gaaattaaga gaacactgtc cgttccatat catttcgatg aagatcgggt gcttggagtt 60
 gtccgtcgag caaaagataa cttctgacta acaaaaggaa atgctcgtga cgtatgaccc 120
 atatcttggt aaagttcaga cagagaacct aagtcacaat aaacatagga ggaaatgaag 180
 gtatatatgt ttgagctaga ttttgaaaaa atgaaataat aagttgctaa aacagacctg 240
 tgctaaaatt ataaaagata aaaaaaaaag attgaaagaa tatgaaaata aaaacaaggg 300
 cggcccggtt tatagggtcc aagcttacgt accccggcat t 341

<210> 12592
<211> 72
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-B6

<400> 12592

agagttatag ttcaataata aaggtatcag actgatgttt gaggcttacc agaaatcata 60
aagtccattt ct 72

<210> 12593
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-B9

<400> 12593

cgtaccggtc cggattcccg ggtcgaccag cgtccggcaa catagaaagt ggaatccagt 60
agcaacaaca gagctcaatg gcgaccaaga tattttccct ctttatgctc cttgctcttt 120
ctgcatgtgt tgctaacgag acaattttcc ctcaatgctc acaagctcct atagcttccc 180
ttcttcccc ataccttcca tcaatgatag cttcagtatg tgaaaaccca gctcttcagc 240
cctataggct ccaacaagca atcgagcaa gcaacatacc tttatcacc ttgttggttc 300
aacaatcgcc agccctatct ttggtgcagt cattggtaca aaccatcagg gcacagcagc 360
tgcagcaact cgtgctacct gtgatcaacc aagtagctct ggcaaacctt tctccctact 420
ctcagcaaca acaatttctt tcattc 446

<210> 12594
<211> 209
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-C2

<400> 12594

ccgggtcgac ccacgcgtac ggacacaaaa tgaacgtaga ataagggctg ggctttgcta 60
gagaaccaag cataaggccg ggaagagtac aaaacattga ttcataataa tgaaaaacgg 120

acgccttatt aaaggatccg tgcttacgat cggctacttg cgacttaaaa ccttttatat 180
cgagtctcat aaactgcaat tacttgcac 209

<210> 12595
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-C8

<400> 12595

tgcacctaag agaagcaaaa tatcgtgcat agtttgccca gaatgtcagg gtactggaat 60
tcacgtcaac ggagatgaac ttgagaagcc aagcatttct ttatcagaga tgtttcgctt 120
caagatgaaa gcaatcgaag ctacaaaagc atggctgaag agacctgaag tgcttgaaaa 180
ctgttccact gggcttcatt tcccctcaga acatgtggag aaccctgagg agaaggtgat 240
gccactcaag tcacttcctt tctatgccgc tgatgggtag aaagatagtt gatggcagct 300
actggaggat gctgcagttg ttgatgtaaa taagctcgct tgacagttgt ggaacagtgt 360
tgttagatgc tcacctacgt gcattatctc ag 392

<210> 12596
<211> 94
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-C9

<400> 12596

aaaaaaaaa aaaaaaaaaa attaaaattt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaataaa aaaaaaaaaa aaaaaaaaaa aaaa 94

<210> 12597
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-D1

<400> 12597

tcgacccacg cgtacgtgct aggctgacca ttgatccaaa taccaatccg tggaacacaa 60

agctgcagaa gatgactggc tacaaagttt ctgaactcaa ggattgcatc gtagccatac 120
 atgacttgca gctcaacagg aaatgtccat cattaacggc aattcgagac aagtacaagc 180
 agcacaagtt caaatgctg tcattgatcc tcgtgcctgt cgtgatccct acttcatact 240
 ttgaagactt agctgagtag ctgctctcgg actgtaccgc tgtaaggcta acaatctgag 300
 ctctccttga gctcttaggg acaagcagaa aataaccgtt tgatgagctt tcctctcatt 360
 taagtagcgt ggtgaaagct attggtttga ggttcttttag gattcgcgcc gctgtgtcac 420
 tcttagtgag accaggca 438

<210> 12598
 <211> 335
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-D2

<400> 12598

ccgggtcgac ccacgcgtac ggtgaccgac atggttcttc ggtcacatta atagtacctg 60
 actctgctcg ttagctgata tcaggaggaa ttcaggatca catgatgatt agtagtgcg 120
 cagcattttt tgcaatctct atttttgagg tcaaatgata tctacctcca cataaatcca 180
 cattggcaga gacaaaaatg aaaataatag atcctagtag ctgtaagaga tccataactaa 240
 atactatgaa tacttagatg ttaacatgt tactcgactg aactcgttgt aaggataaca 300
 aaaaaggggg ggccctttta aaggacccac tttta 335

<210> 12599
 <211> 360
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-006-Q1-K1-D3

<400> 12599

ccgaattccc ggtcgaccac gcgttcgcca cgcgncggat gccttcaatg attagccaaa 60
 catgatgaca gtgccacatg gactctgatt catctcgac attatacaac aacaacaatg 120
 accattcatg ttcagcccca cagccgggag atctcaccca tgtttttaca gcagcccttt 180
 gttggtgctg cattctagat ataagcattt gtgtgtgacc caataatgaa gtcggcatgc 240

catcgcatgc gactcattgt ttaggaataa aacaagctaa taatgacttt tctctcatta 300
 taatgtaaaa aaaaaaaaaa aaaaaaataa aaaaaattga aacaaaaaaa tgaaaataat 360

<210> 12600
 <211> 268
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-E4

<400> 12600

cggaatcccc gtcgaccac gcgtacgctg gcccggggagc aggcgagggc taggtccgag 60
 caggtgctcg tgcgcatgta cggcgcgggc gtcgaggtct tcttcgaccg cgccgacgag 120

gtccgtacct tcgagtgcac gtcgcgccac ggtaggggag cccgtctcct gagccgcttc 180
 tgcaacggcc gagtcgagga gttcatcaac gccaggaccc tcttagctga ggatctgcgc 240
 tacacggata tgtgcgcgct gattgcca 268

<210> 12601
 <211> 184
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-F2

<400> 12601

ggaattcccc gtcgaccacg cgtccgacag gtcgcaagcc ataatgataa gacctgcatg 60
 ctctctcttg aagtgaccag atcgggtctgt gaccgagagt tcgaagctgt catgatgtcc 120
 aagcgcgccg gatggggagg atggcaagcc acaagagtgg cgagacagag acaccttcat 180
 tgct 184

<210> 12602
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-F4

<400> 12602

ggaattcccc ggtcgactca cgcgtccgga ggagctggcg aacctcgtga tcgttgccgg 60

tgaccacggc aaggagtcca agggcagggg tgagcaggcg gagttcaaga agatgtacag 120
cctcatcgac gagtacaagt tgaagggcca tatccggtgg atctcggcgc agatgaaccg 180
cgttcgcaac ggggaactgt accgctacat ttgcgattcg aaaggcgcat ttcgtgccag 240
ctgcgttctt cgaaacggtc gggctgactg ggatcgaatc catgacgtgc ggtctgccaa 300
cgatcgcgac cttccatggg gggccctctg aaaatatcgt ggactgggta tttggcctgg 360
acattgacct tttccacagc gacaaggcct tggatattcc ggttaacgtt tttgaccaat 420
g 421

<210> 12603
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-G4

<400> 12603

ggaattccgg tgcacctacg cgttcgcaaa aaattgccat gtttgagaag aattgtggaa 60
tgcaggctct aattcaatat ccagatatga caactgcagc cgttgctaaa caagctttgg 120
agggacactg catatatgat ggtggttact gctcatgatg atagaagcag agactacact 180
ctttcagacc ctaatgcgca gctgcaagct gctgcacagg cgccagttat aagttctccg 240
ggagtggcat ggcgaaaccc tgcattagca ccagttgttc ctttctatgg aagcacgggg 300
gcttaaactc ctgttggaac accgcttgct gggaacccta aaatgcaggc ccttggtttt 360
cattttgatt ggacagggta cccaaaccaa ccattaatgg ccaattcaag g 411

<210> 12604
<211> 319
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-006-Q1-K1-G6

<400> 12604

gtaccggtec ggaatcccgg gtcgacnacg cgtccggcaa cagccgcaaa gcggtcaggt 60
cgtggagctg atggcggcgc agatagcgca gcaactgacg gctatgtgcg gctgcagca 120

gccgactcca tgcccatcacg ctgctgccgg cggtgtcccc cactgaagaa actatgtgct 180
 gtagtatagc cgctggctag ctagctagtt gagtcattta ccgtcgacga ttgagtaata 240
 atgtgtcacg catcaccatg agtggcagtg tcagtgtgag caatgacctg aatgaacaat 300
 tgaacgacaa gaaaaagta 319

<210> 12605
 <211> 469
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-007-Q1-K1-A2
 <400> 12605

tcccgggtcg acccagcgta cgcccacgcg tacgatcaca agctagcgag tgaccggcg 60
 cggaataaga gagagacgac gtattatgat atagtagttt tatagctatc taccctaata 120
 ttattttatg gtactctgct tatattttta gttttttttt ttttatctgg ttttttttat 180
 ttttctgttt tttttttata tttctctcat ttttgtttta tttttttttt ttactttttt 240
 ttttcttttt tatatatttt tttcttatat tattttttat ttttcttct atttattttt 300
 ttttttattt tatatttatt tttttattat ttttatatta tttatatttt atttattttc 360
 tttttttatt ttttttttta tattttattt attttttatt ttatttttat ttttatttta 420
 ttttatttta tttttttttt tatttttttt ttctttactt attttttat 469

<210> 12606
 <211> 249
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-007-Q1-K1-B5
 <400> 12606

tccgtgtcca cgtgacattg gagtccctac tgaacgacaa ggacatccag gcaaccatca 60
 aggacctggt cacaagcagc gggaggtcct tccccgaaa gaaggcggaa ggtgctgacg 120
 agagcgggga gaagctgtcc aagggtcagc tgaatggtaa agcttaggaa aggattgcga 180
 gagctgctgg aagtgaccac gggtacaagt aaataaatag aataaggcga cagattgcat 240
 caccgtgtt 249

<210> 12607
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-C10

<400> 12607

cgctgcagt accgtccgga attcccggc gccacgcgt cggcaacaac atggaggagc 60
 aggagctgct ggagcggctc ctccgtacca gagcttctgt gctgctgaag acgctgtgct 120
 acctcgccca aatctgtttc cactgctttg acggcgagaa cgtggagagt gctcctctcc 180
 tatgaagaag gactacaaac tggctaactc tctatgctgg gaggaggaac cggatgccat 240
 ggaggagaag gcgggagtg ttagtgagta agacgggctt ctggggtcga ttgtctctg 300
 agttgtttat ttatatcgt cgcaatttcg tgggtgtcgt ttggttattc tgtgaagcag 360
 ccatgctctg ctattgttat gaaattttgt cgtctgtaag catgtgtact ttctactttg 420
 cca 423

<210> 12608
 <211> 197
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-D1

<400> 12608

ggattcccgg tcgcccacgc gtccgaggca agcgtgaac gcgacgctgg actcgacctt 60
 cgacccttac gagaacagcc tcaacttgct cgtcgctcc tacatcatcc cctacgtcgg 120
 cctcaccggc tacgtcggcg ccaaccccag gctcctcacc cttcaggcca gaaagctgct 180
 ggcggggctg ctgtcgg 197

<210> 12609
 <211> 170
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-D7

<400> 12609

aattctatatt ttaagaatct aaaaatgtac tatcttatct ggggcaagcc acaaacatca 60
gacaaaaaac tttattattg aactataact cataagaaat gtaaaagagg gcaccaccaa 120
tgatgggttg ttggtagaac actgctaggt ttgtcaaagc aagttgtctg 170

<210> 12610
<211> 371
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-007-Q1-K1-E10
<400> 12610

cgatatgctg cggttgagtc accatatccc gcaaaaggaa ggtctgcctc aaagcttcca 60
gtgtctgcac ctgggcgtgc agcgcttcct agtgccaccc cgaatctaaa cattgggatg 120
gacatttgga atgcttctcc tgccttggct gtgcctgcag tgcaggggga agtgagtcct 180
gggttggcac ttgcccgacg tgatggcggt actcaactgg acgaacgtga aatgaagaga 240
aggatcggcg ttaaaatggt attgtgaagg gagaggtttt taagcaaat actgtaccgt 300
cgttttgcca tcgagtatat ttgaccctcg attatataga tcacattaaa tttttggagc 360
atcaatttta t 371

<210> 12611
<211> 455
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-007-Q1-K1-E2
<400> 12611

cgtctcggat tcccgggtcg actcacgct cgcgccacgc gttcggacaa ctatcaacat 60
agaaagcaca atagtgtacc aacaatggca gccaaaatat tttgctcct tatgctcctt 120
ggtctttctg caagtgtgc taccgcgacc atttcccgcc aatgtcaca tgcttctata 180
gcttcccttt tttcccgta cctcttacca tctgtgtttt cggtatgtga ataccatata 240
ttttaaccct atatgattca acaggcaatc tcaactgtct tttatctag ttactattg 300
tttttttaat atttatcatt tttattacat tattttctct ttgttgcat tatttgcctt 360
attttttct ttgttcatac atcttttttt tctttttttt tgttattctt ttaattttt 420

cttatttttta tattttttatt tttctaatta atttt

455

<210> 12612
<211> 270
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-E6

<400> 12612

gtaccgtccg cattccccggg tcgaccacg cgtacgcgga cgcgtgggct tctatcagta 60
ccatcaatca tcattcatct tagtagtata ggcaccaaat caaatctgca tcatcaatta 120
tctaactcca aaaaccatga agctgggtgct tgtgggttctt gctttcattg ctttagtata 180
aagtgtttat tgtacacaga caggccgttg tctctgtggt caacaacaat atcttgagca 240

gtaacatttt ttatatctta catctattcc 270

<210> 12613
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-E8

<400> 12613

tgactagatt taaggacaat gaagaagatg atggaagcga tgaaaacgag gtgttcaatg 60
acctaatagc agctgggttat gaagaaaaag aagtagatca cgagaagcgt aatgaactcc 120
acaaaaagtg gcttcaacaa caggatgctg ctgaaacaaa taatgttata caaaggctga 180
agtttggtca ccgggagcaa aaagaatcag catatgaaga tgaagatgaa gacgaagacg 240
aagatgaaga tgaagatgaa gatgtagctg attgtgagga aggatcacia aatgaagatt 300
taactccagc aaatattgtg cgacaaaatt cagagaaggc aaaacagatg attgcaaaga 360
tgtttgaaga tgacaatgat acttatgagc actcggatga tgaggaaata gaagagcatt 420
tggctcgtca gcgcatt 437

<210> 12614
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-F3

<400> 12614

ccgtaccggt tcggaattcg aggcacgcgt cacgcgtgcg cttacgcgta gcatcaacta 60
attcacaatg ggcaccaaag tatttttccc tccgtatgct ccttgctcta tctgcatgtg 120
ttgcttacgc gacaatttat acacaatgct tacaagctcc tatatctttc ctttattatc 180
tcataccttg catcaatgat agcttcagta tgtgaaaacc catctcttca accctatagg 240
ctccaacaag caatcgcagc atgcaacata cctttatcaa ccttgtttca acaatcgtca 300
gtcctatctt aggtgcattc att 323

<210> 12615

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-G3

<400> 12615

gcctgcggta ccggtctcgg aattccgggg tacgacgtca cgcgtacgcg gacgcatcga 60
gtcgtttcaa atccatgcat gctcgtctgc tcatttcgcg agcgatgtaa cacggatgtc 120
caagatcaag atcgggatca atgggctcgg caggatcgga cggctgatgg ccagggcgac 180
cctgcatagt gacaacttca cgctcgtaag cgggcaagac tgcttaatca gcacagaata 240
catgtcctac atgaccaagt acgacactgt gcacggactg tggacgcact ctgcaaccaa 300
tgccaagtga ctgcaaaact cctgttcggt tagcgagaag gatgttgcct gtgttagtc 359

<210> 12616

<211> 120

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-G4

<400> 12616

cgggtcgacg cacgcagtca ggcacggcg tagtcaccaa ggtcggagtg tggggtggag 60
agggaggggtc ggcgcatgag atctggacga cagaaccttc gaggcgtctg cagagcctga 120

<210> 12617

<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-H12

<400> 12617

accaaggcca aaacattttt aaaatagtaa aacaaagcgg gaaaattgga acatgaaact 60
caacttgata tggggcttca atgaagcatc taatctatgc tatgagaaga atcgacgtaa 120
aaagaataag aagaatcaac acaatgagtc catggagcca ataccatttt ggggtggaagc 180
cggaatcatc atgactaaga acctatactg ccagggcgcc agaaaccctt ggtggcaaga 240
agaaattgat gtttgacaat tgtagtcttg taatgcaaag acctgagaac aggggtccatc 300
tttcttatca tgtctatagt gtcttcgagc acaaaccatc taccaggtct aagtattctg 360
tcaatttcag ctgcaacttc aatgatgtgg caccttttcg taaggggccc taagagataa 420
ctcatgtga 429

<210> 12618
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-A11

<400> 12618

ccggatcgac ccacgcgtgc gtccacgcgt ccgaaggagg gcatcccacc ggaccagcag 60
cgtttgatct tcgctggcaa gcagctggag gatggccgca cccttgcgga ttacaacatc 120
cagaaggaga gcaccctcca cctggtgctc cgtctcaggg gtggtatgca gatctttgtg 180
aagacactca ctggcaagac aatcaccctt gaggtggagt cttcggatac cattgacaat 240
gtcaaggcca agatccagga caaggagggc atcccaccg accagcagcg cctcatcttc 300
gccggcaagc agctggagga tggccgcacc ctggcggatt acaacatcca gaatgagagc 360
actcttcacc ttgtgcttcg tcttaagggg tggcatgcat atttttgtga agactttgac 420
tggcaagacc attacctt 438

<210> 12619
<211> 332
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-A4

<400> 12619

gtccggaatt cccggatcga cccacgcgtt cttcaactag caacatagaa agcacaatag 60
tgtaccaaca atggttagcca aaatattttg cctccttatg ctccttggtc tttctgcaag 120
tgctgctacg acgaccattt tcccgcattg ctcacaagct cctatagctt ctcttctttc 180
cccatacctt tcaccagcgt tgtcttcagt atgtgaaaac ccaattcttc aaccctacag 240
gatccaatat gcaatcacag caggcatctt aattttatca cccttggttt ttcaacaatc 300
attagtgcta attacataat tacctttggt gc 332

<210> 12620

<211> 279

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-B1

<400> 12620

aattcccggg tcgaccacg ctttcgagat gctttatgca agtcaatcc agaaattcaa 60
gagtggcctt aatggcattc atgttgaact ccaggccaca gatgctagtg aaatcagcct 120
cgatgagatc aaggatcggg cacgctaggc gcaccgtcat cgcgagtctt atggtcacgc 180
atcatggact cgctactac tgtggatttg tacgccatta tagacttggt gctgcgaaag 240
actgctttgg tgatttggg gtatgatgct gtgtaaaaa 279

<210> 12621

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-B6

<400> 12621

tccactcgtt cgtgccgaag gaaaacaatc ctgaaaccaa gccatgggtc tgcaggagga 60
atttgaggag catgctgaga aggcaaagac cttgcctgag aacacgagca atgagaacaa 120
gctgatccta tacgggctct acaagcaagc cacggttgga gatgtgaata ccgatcgtcc 180

gggcatattc taccaaaagg acagggccaa ttgggatgcc tggaaggctg ttgaatgcaa 240
 atcgaaggat gattcgatga atgactacat caccaagggtg aagcagctcc aggaggaggc 300
 tgccgccttt taaaagtctt gtaatagtgt tgccaaacag ctatttgtca gatgagcttt 360
 gtgccatttc cttaataggt gtatatcatt cgatccattg gggatctgtg aaccatgtac 420
 ctgtttatgt 430

<210> 12622
 <211> 249
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-C8

<400> 12622

gcctgcagtt ccggtccgga attgccgggt cgactcactc tttcgctagc attcgcagtt 60
 tccccctctcc ttgatacgca tcttttttct aggagtaagt ttgttctttt attgatattg 120
 cgaggtagga gaatgtctac atggccatgc tggcatattt gtccgaaagg tatgaataga 180
 tggttgagta tatggagaat gtgtctaata ctgtatatgt ggaagtgtct actgttgagg 240
 agcgtaact 249

<210> 12623
 <211> 62
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-D10

<400> 12623

ggccggaatc ccgggtcgac ccagcggtcg ggaacgtggg ctcgcatatc atggacaacc 60
 tg 62

<210> 12624
 <211> 264
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-D2

<400> 12624

gtaccgggtcc ggaattccgg tgcaccagtc ttctacagtt tcaagcatgc ctagatgcag 60
 taatgcaaag tcttgcaaaa tccatagcat gggatggtga gggtgcaaca tgcctaattg 120
 aggttactgt aagtgggtcc tacaacgatg ctgaagctgc taaaattgct cggttcagtat 180
 catcttcttt tttggttaaa gccgctatat ttggaagaga cccaaattgg ggacgaattg 240
 cttgctcagt tggttattca ggca 264

<210> 12625
 <211> 349
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-008-Q1-K1-D4
 <400> 12625

gtaccgggtcc ggaatacccg gatcgaccca cgcgtgcagg caggcagcca gcagctgatt 60
 acccgcaaga atcaggggca gtcaaccaac tggcatcatt gaactctccg gcttatgtac 120
 agcagcaaca actactacca ttcaggcagc taagtgggtg gagccctgct gccttcttga 180
 cacatcaaca gttattgccg tgctaccggc acgctgcgcc taacgctggc accctcttac 240
 aactgcaaca atttctgcc ttcaaccaac ttgctttgac aaaccagca gcgtgggacc 300
 gacaacccat gagtgggtgg gccctcagat agagatctta tgagttata 349

<210> 12626
 <211> 416
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-008-Q1-K1-E12
 <400> 12626

tgctgccata cgctatggaa ctggttccat tgctgggtttt ttcagtgagg atagcgttac 60
 attaggtgat ctggttgtga aggatcagga atttattgaa gctacaaagg agccagggct 120
 taccttcatt gttgcaaaat ttgatggcat tcttgggcta ggctttcaag aaatctctgt 180
 tgggaatgca acaccagtgt ggtataacat ggtgaaacaa ggtctcatca gcgaccctgt 240
 tttctctttc tggtttaacc gacatgctga tgaaggagaa ggtgggtgaaa ttgtgtttgg 300
 tggaatggat tctagccact acaaggggtga tcacacgttt gtcccagtc ctcgttaagg 360

gatactggca atttaacatg ggtgatgtcc tggttgatgg aaagcccact tgtttt 416

<210> 12627

<211> 219

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-F10

<400> 12627

tgaatttctg atgatgtctt atgtctgtac tctgaatcaa ctatgtatga gatctcatct 60

cctttctcct actgaatgaa tgaatcatta ttggctttgc tttgcttcaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagaaa 180

aatacaacac taataaaata cgacataaaa acaacaaca 219

<210> 12628

<211> 251

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-F5

<400> 12628

tagaaatcgc gctgcaggac gctagcggcc gtacactacc aacaacgacc cctacaccaa 60

ccaaacccag cgagcgaact ggaccccgcg agctattggc agcaccctat actagcacca 120

ctgagccagc tagctacagc aggcccagcg aaccaggga cacagcaaca gcggccgcgc 180

gagctaccag caacaggcag cgaacctcgc agaccctctc acaactgcaa caatgggcga 240

ccatagacca a 251

<210> 12629

<211> 69

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-F9

<400> 12629

ttgatgcgat cgggcacgca tctataatta gggccataaa tactggagca aggtagtagc 60

gtgatatct 69

<210> 12630
<211> 172
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-A5

<400> 12630

tcgaccgacg cggttcgatcc ttctatcagt accatcaatc atcattcatc ttattagtaa 60
atgcacacaaa tcaaatgtac ggggtcaatt atctaactgc aaaaaccatg aagctgggtgc 120
atgtggttct tgcttatatt gctttagaat caagtgtatc tagtacacat ac 172

<210> 12631
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-A7

<400> 12631

gaagaaacca tggatgatat cttcaaggac gatgagccgg acagctacgc cgacaagagg 60
agctagtttg tgccctctcc aaagagtgtc catcaatcgc attccagaac gatatgtatt 120
ggctagtgtt tgctgttaac atcatagcgg cctgtatgtt caaataatgg agcgagtatt 180
tctgatgagt ttgagttgtc gggggctgtg gaactttcaa acatggcgat acgttataat 240
gtcgttttgc tagatgctat gctttcatcg tggcttgga aatcggggtct tgtcaagttt 300
cagctcacag acggatctgt aaatggtact gaaccctaca tcttatgttt tctgttaaaa 360
aaaaaaaaat aaaaaaaaaa aaaaaaaaaa aaaaaaaac atataaaaaa tatt 414

<210> 12632
<211> 451
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-009-Q1-K1-B1

<400> 12632

cggaattccg gtcgaccacg cgtnccgccac gcgtccgtta aagtaaaagt ccattttag 60
gtgtttatgt gtaggtgtta tgtatataaa ggggctaacc gctaacgtgt tatagataat 120

tatcttagcc atcattgtct cttttcctaa ggttacagac gtctaagaca gtcacgaat 180
catcaaagta tgagaccctc actacagata agctttttca gcgagttcaa gttcatagaa 240
attaatcact agacttgga accctagtgc atccaccata agccttgtct taagagggtga 300
tatctcttta gcttggcact tgttgtcagt cgtttttgca gcttcacaac aatgatatga 360
atcggcggtg tggcacgaac aaggacgcct gctttcacta tacagacctc gactatttca 420
tcgccaaacta tttcaagatg aagggaagt c 451

<210> 12633
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-B11

<400> 12633
accaaggcgt ccgccacgc gtccgccac gcgtccgaga aaatgagaga gaaagtccaa 60
aagatcatag ctcacggaat caactgtttc atcaacaggc agttgatcta taacttcct 120
gaggaactct ttgctgacgc tggcatactt gcaattgagc atgctgactt tgagggcatt 180
gaacgtctgg ctcttgttac tgggtggtgag atcgcatcaa cttttgataa tccagattct 240
gttaagcttg gtcactgcaa ggtaattgaa gagattatga ttggggagga cagggttaatt 300
catttctctg gggtcgcgat ggggcaggct tgcaccattg tcctaagggg ggctagtgag 360
catgtgcttg atgaggcaga gagatccttg catgatgcct tgtgtgtgct gtcccagaca 420
gtaaatgata ccg 434

<210> 12634
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-B12

<400> 12634
gtccgcgcaa attgcaccaa gaaatccatc gagaggccgt cgacagggga attaatggcg 60
tcgtcgtcta gcagcagcca ccgccgcctc atcctcgcag ccgccgtcct gctctccgtg 120
ctcgcggctg ccagcgccag cgccgggacc tcctgcgtgc cggggtgggc catcccgac 180

aaccgcgtcc cgagctgccg ctggtacgtg accagccgga cctgcggcat cgggccgcgc 240
 ctcccgtggc cggagctgaa gaggagatgc tgccgggagc tggcggacat cccggcgtag 300
 tgccggtgca cggcgtgag catcctcatg gacggcgcca tcccgccggg cccggacgcg 360
 cagctggagg gccgcctaga ggacctgccg ggctgcccgc gggaggt 407

<210> 12635
 <211> 451
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-B2

<400> 12635

aagcgaagca cattagcaac aacctaaca caatggctac caagatatta tccctccttg 60
 cgcttcttgc gctttttgcg agcgcaaca atgcgttcat tattccacaa tgctcacttg 120
 ctccaagttc cattattaca cagttcctcc caccagttac ttcaatgggc ttcgaacacc 180
 cagctgtgca agcctatagg ctacaacaag caattgcggc gagcgtctta caacaaccaa 240
 tttcccagtt gcaacaacaa tccttggcac atctaacaat acaaaccatc gcaacgcaac 300
 agcaacaaca attcctacca gactgagcc acctagccat ggtgaaccct gccgcctact 360
 tgcaacagca gttgcttgca tcaaaccac ttgctctggc aaacgtagtt gcaaaccagc 420
 cacaacaaca gctgcaacag tttctgccag c 451

<210> 12636
 <211> 453
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-B4

<400> 12636

aattcccggg tcgacccacg cgtacgccca cgcgtccgca gaaacacacc aagttataca 60
 cattagcaac agcctagcaa caatggctac caagatatta tccctacttg cagcttcttg 120
 cgctttttgc gagcgcaaca aatgcgttca ttattccaca atgctcactt gctccaagtt 180
 ccattattac acagttacta ccaccagtta cttcaatggg ctacgaacac ccacctgtgc 240
 aagcctatag gctacaacaa gcaattgatg agagcgtctt accacaacct attttccaga 300

tgcaacaaca acacttggca catgtaacat tacaaccat ctcaacgcat cagtatcaac 360
aattcctacc agcactgtac cacctagcca tgggtgaaacc tgatgcctac ttgcaacaac 420
agttgcttgc attaaaccca cttgctctgg caa 453

<210> 12637
<211> 285
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-009-Q1-K1-B5
<400> 12637

gtgacgcgtg aatggtggag ccatcatccc ggcgaagggtg gcggcggcgg gctggggacg 60
aaatatcgcg ctgctttctt tttattgggg ttctgtttta agctttgttt ttggccgtga 120
aataaaaaata gttgctgtac taagaaaaaa gagcaatctc atttatggat atgaaatatt 180
acctgaagcc attaaaaaaa aagggcgggc gttctaaagg gtcccagctt tactacgctt 240
tccttcgacc gtatagcctt tttttagggg cacctaaatt taatt 285

<210> 12638
<211> 439
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-009-Q1-K1-C11
<400> 12638

cgtccgaata aataaaaatg aagaagataa aaaaaagaca aagaaaataa taaaaaaaga 60
taataaagaa aatagaaaat ttagaaaaaa gaaaaaaaaa actaaaaaaaa taaaaataaa 120
aaaataggaa ataaaagaaa aatcaaaag aagaaaaatt taaagtcaag caaaaagaat 180
acagaaaaag aaataaaaaa atgaaaaata aaagaaaaga gattgataaa aaataaaaaa 240
aagaaaaaaa gatagataaa aagatataaa gataacaaat aaagtaacaa ttcataagga 300
atttaaaaaa taaaaataat aaagaaaaat ataataaaca agtaataaaa gaaaaaaaaa 360
aaaggaaaat gtgaaatata aacaagaaaa aataagaaaa aaataaaatc aataaaaaaa 420
aggaaaaaat aataataaa 439

<210> 12639
<211> 212
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-C3

<400> 12639

gtaatcataa agcagccctg atcgggtttg actcgatgaa tcacttcttg attgaataag 60
cgaagaacgc cagtaagaat tacagccaat aatctgtaca catgatcttc aattcagggg 120
gaaactgaac tgatcgaaaa gatctgatgg attctgattt tgcgtgcttg tcttcctcga 180
tcttgccagc gaagaggacc catcattatt gt 212

<210> 12640
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-D11

<400> 12640

accaaggcgt ccgctggcta ccaagcttcc aaggatgact tggctgtcta cacttcgttt 60
tcgtctgctc cctcgcccaa gtatatcaac gtagcaaggt ggtttaatca cattgatgag 120
ctcgtgaggc tgagcggaat tactgcagag ggccaagggt tgaagggtga atcgtcagca 180
gttccttcag cccaactcc agatgttgct gaagcacagg cccagttgc tgaggaggac 240
gacgacgatg atgttgacct ttttggtgag gagaccgaag atgagaagaa ggctgctgaa 300
gagcgtgctg cagctgccaa ggcttctggc aagaagaaag aatctgggaa gtcacagtt 360
ttacttgatg tgaagccatg ggacgatgag actgacatgg ccaagctcga ggaagctgtt 420
aggagtgt 428

<210> 12641
<211> 62
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-D3

<400> 12641

tcgaccacg cgtacggggc gtgggcgcct acgttgagc cgtttttgc tggggcttct 60

<210> 12642
 <211> 382
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-009-Q1-K1-D9

 <400> 12642

cggacgcgtg ggcgcgcccg tgccgcgcat ctncatcgcc atgttcctgc tcgcgcccaa 60
 ggacgaccgc gtgagcgccc cggaggcggtt ggtcgacgcg ggccaccgcg gtcgggtacaa 120
 gccgttcaac tacgacgact accggagggt cgggctgtcc accggcgagc ggcgaggcga 180

 ggcgctcgcg cggatggcgg cgtgacgtcg tcacgcacgt gcaagccgtt aattataggc 240
 tcgcgcatgc atacgcctac acgtacgaga ggttgtctcg ttaagccgtt ctattaaaat 300
 gtgtggggga gaaagatgac taccgtggtg ccatgtggat tgctatcggg tctgatcaat 360
 aaaatcttgc aacacttgca ac 382

<210> 12643
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-009-Q1-K1-E5

 <400> 12643

tacagccggg tgctgcgagt cagcggcgag cggcggcgcg cggaggagca caggggcgac 60
 cactggcacc gcgaggagcg ctcccacggc aggttctggc gccagttccg cctccccgag 120
 aacgccgacc tcgactccgt cggcgccagc ctcgacaacg gcgtcctcac cgtgcggttc 180
 cggaagctgg cccccgagca ggtcaagggc ccgcgcgtcg ttgggattgc cgggggagac 240
 ggtgacggcg acgcgaagaa gagtattggc ggcggcgccg gggatgggtca tcatcagacc 300
 aagaaggtgg agctctgaac agtcaaacga ggggtgttcg cgtttttttt ttttttggg 360
 tatgttcttt atgttccacg acgtatccgg tatctccacc tgtattgtat ggagaggcag 420
 agaaagtgtg ccattctgac tg 442

<210> 12644
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-E8

<400> 12644

tctcgtcttc ggggtctctg gcggtatcggc gttcagtga agctaaaagc ctaaaaccct 60
 agttcgaacc tctactagcc ggcgacagcg gcggtggagc gcgggatacc cggagatgcc 120
 agcgccgtct gcggttgctg cgcccgtaga gaggctacag gcagcggcgc aggacgccgc 180
 caagtccctg tcgcgctcgg ccggcgccctt ctccgagcag gcgcagcagg ccctcgtgtc 240
 caggaccgcc ggggttcaca ctcaagaaaa ggctgcgcag atgggctgct agactgctga 300
 agagaattaa ggacgacgac tattgactaa tgcgatcttt tcttcattgt ctttggagtt 360
 tgttcagaaa tcagaactat ggctactacg tacctcagca tcttgtgtag ccaactgttt 420
 ttgtgccttc acatatttgc tatg 444

<210> 12645
 <211> 401
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-009-Q1-K1-F12

<400> 12645

ccgggtcgac ccaagccttc gggaacccaa attcgttcaa gtggatgctt caaaattcaa 60
 tgtaccggcc acaacttcg ggttttctta agaacattgg tggatcttct gatcaatggg 120
 ataaccaat tcttgatcaa cttgagaact ttgaacctaa caatccaaaa atgccgcagc 180
 aatttgcgca aagtggcatg acttccgagg aagtggatc gaaaataatg gcaaaccag 240
 atgtagctgt cgcattccag aatccaaaaa tacagacagc catcatggac tgctcgcaaa 300
 accctcttaa cattgtaaag taccaaacg acaaggaagt catggatgtt ttcatgaaga 360
 tatcacagat cttnccccaa atcaacggct agctggcttt c 401

<210> 12646
 <211> 414

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-009-Q1-K1-F2
 <400> 12646
 gggagttcca ctccctcatt ttcacaagaa aacgggatcg atcattccat gacgccacta 60
 tctgtatcta gatcgtctgc tgaaacagca aaggagaagc cctctgaggc aacttctgtg 120
 atctgcaagc taactgagga gaaaatgtct gctgttcagc agaaccagaa attacgcaa 180
 gagctggagc ttctacggaa agagagcagc acaaccggcg gcggtttctc catcaccttc 240
 ttgtttgtcg agggcctact gggcatcgtc gttggctaca tgcttaagag aacatagtgg 300
 aacggtgtct ccagcagatc tctactactc ccattaaagg acaccaccc accccacag 360
 tggcgtggta tgcctctctc tccccatgtg ttttcgctcc taatcggagc gcc 414

<210> 12647
 <211> 426
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-009-Q1-K1-F4
 <400> 12647
 ggattcccg tgcacnacgc gtccgcaaca acttgtgcta gcaaaccttg ctgcctactc 60
 tcagcaacag cagtttcttc cattcaacca actagctgca ttgaactctg ctgcttattt 120
 gcaacaacaa ctaccattca gccagctagc tgctgcctac cccaacaat ttcttccatt 180
 caaccaactg gcatcattga actctcctgc ttatttacag cagcaacaac tactaccatt 240
 cagccagcta gctgggtgtga gccctgctgc cttcttgaca caacaacagt tattgccgtt 300
 ctacctgcac gctgcgccta acgctggcac cctcttataa ctgcaacaat tgctgccatt 360
 taaccaactt gctttgacaa acccagcagc gttctacaa caacccatca ttgggtggtgc 420
 cctctt 426

<210> 12648
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-F6

<400> 12648

ttgcaatcac aacgaacaaa agctctcgat ctcaccgaca ccgaggaaga agagatcaat 60
ggcgtccgag cagggagtcg tgatecgcgtg ccacagcaag gctgagtttg acgcccacat 120
gaccaaggcc caggaagccg gcaagctggt ggtcattgac ttcactgccg cctgggtgcgg 180
tccatgccgc gccatcgccc cactgttcgt cgaacacgcc aagaagttca ctcaggtcgt 240
gttctctgaag gtggacgtgg acgaagtga ggaagtcacc gcggcctacg aggtcgaggc 300
gatgccgacc ttccacttcg tcaagaacgg caagacggtc gcgaccatcg tgggtgccag 360
gaaggacgag ctcttgcccc agatcgagaa gcatgctgcg cctgcgcctg cgtctgcgtc 420
tgcctaaagg agatcagatc aatcg 445

<210> 12649

<211> 303

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-009-Q1-K1-G10

<400> 12649

cgggtcgacc cacgcgttcg attttgagca ttcagaaaca caccaagccg aacgcactag 60
caacaaccta acaacaatgg ctaccaagat attattcctc cttgcgcttc ttgcgctttt 120
tgcgagcgca acaaatgcgt ncattattcc acaatgctca cttgctccta gttccattat 180
tccacagttc ctcccaccag ttacttcaat ggccttcgaa caccagctg tgcaagccta 240
taggctacaa caagcgattg cagcgaacgt cttacaacaa ccaattgccc aattgcaaca 300
aca 303

<210> 12650

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-G11

<400> 12650

cgggtccgat tcccggtcga ccacgcgtcc gccacgcgt ccgcgggcca cctccctacg 60

gaggagacga ccccatctc aaggtegagg tggagggctc ctctctctct accatctccg 120
 ttgatccca tgcgccgcc gccgccatgg cgtttctcgc gcgggcgctg cggcagtcca 180
 actggcgctt gtcgtcgcgc tgccccgccg tggccgcctc ctgccgttgg atctccccga 240
 ccgccgccgc gggatcgccg gaggccggcg cggcgggtggc gtctgccgac ccggagctgc 300
 ctccgccgcg ggagcccgtt ggccggcgccc gcgtggagct tcctcctaac ccggaggacg 360
 cgctcgaggt attcgtggat ggccatgcgg tgcggatccc caaggtgttc accgtgctcc 420
 aggctgcga ggtcgccggc gtcgacatcc cgc 453

<210> 12651

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-G2

<400> 12651

tagcaacata gaaagcacia tagtgtacca acaatggcag ccaaaatatt ttgcctcctt 60
 atgctccttg gtctttctgc aagtgtgct acggcgacca ttttcccgca atgctcacia 120
 gtcctatag ctcccttct tccccgtac ctctcaccag tggtgtcttc agtatgtgaa 180
 aaccaattc ttcaacccta caggatccaa catgcaattg catcaggcat cttaccttta 240
 tcaccttgt tcctccaaca atcatcagcc ctattacagc agttaccttt ggtgcattta 300
 ttggcacaaa acatcagggc acaacaactc gtgctagcaa accttgctgc ctactctcag 360
 caacaacagt tacctttggg gcatttggtg gcacaaaaca tcagggcaca acaactacaa 420
 caactcgtgc tag 433

<210> 12652

<211> 423

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-009-Q1-K1-G9

<400> 12652

tagcaacata gaaagcacia tagtgtacca acaatggcag ccaaaatatt ttgcttcctt 60

atgctccttg gtctttctgc aagtgttgct accgcaacca ttttcccaca atgctcacia 120
gctcctatag ctcccttct tccccatac ctctcaccag cgggtgtcttc aatgtgtgaa 180
aaccceaattg ttcaacccta caggatccaa caggcaatcg caacaggcat cttaccatta 240
tcacccttgt tctccaaca accgtcagcc ctattacagc agttaccttt ggtccatttg 300
gtggcacana acatcagggc acaacaacta caacaacttg tgctagcaaa ccttgctgca 360
tactctcagc aacatcagtt tcttccattc aaccaactgg ctgcattgaa ctctgctgct 420
tat 423

<210> 12653
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-H10

<400> 12653

cacgcgtccg tgctgatggc aacggcacca tcgatttccc agagtcttctc aaccttatgg 60
ctcgcaagat gaaggacacc gactctgagg aagagctcaa ggaggccttc cgtgtgtttg 120
acaaggacca gaacggcttc atctcggccg ccgagctccg ccatgtcatg acaaactctg 180
gtgagaagct aactgatgag gaggtggacg agatgatccg tgaggctgat gtcgatgggtg 240
atggccagat caactacgag gagtttgtca aggtcatgat ggccaagtga gccacagaac 300
cataatctga aggcagagaa gattatgcat tgcattatag tcaagatgca actttttatt 360
ccatcgactt ctagtgaaac attctgctag ttgtagtgtg tgaaaaaggc aatgtagtct 420
ctgctttggt ct 432

<210> 12654
<211> 245
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-H3

<400> 12654

aagaagttat atttccaaat tctaattgtc taaaaaaaaa aaaaaaaaaa aaaaaaaaaag 60
gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaata taaaaataa 120

aaaaaaaaa aaaaaaaaaa agcaaaaaaa aaaatataaa aatagtgata actaaaaaaa 180
ataaaaatagg gcggcgattt acaattttat gactgggaaa tctttataat aaccaaacta 240
aattg 245

<210> 12655
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-A11

<400> 12655

ttcaccacaca cgctggatcat agagatgtcg gctgcagagg cgaaggcggc ggcgggtcccg 60
gagtctgtgc tgcggaagcg caagcgggag gagcaatggg caacggaçaa gaaggagaag 120
gcgctcgcgg acaggaagaa tgcgctcgag agccgcaaga tcatcttcgc ccgcgccaag 180
cagtaccccg aggagtacca cgcccaggag aaggagcttg tgcagctcaa gcgtgaggcc 240
cggttgaagg gtgggttcta tgtgagccca gaggccaagc ttctgtttga gggtcgcattc 300
cgtggtatca atgccatgca cccaagacc cgcaagatct tgcagctcct gcgattgagg 360
cagatcttca acggtgtctt actcaagggt aacaaggcaa ccattaacat gct 413

<210> 12656
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-A12

<400> 12656

taccggtttc ggattcccgg gtcgaccccg cgtccgagca agcgggggatg tgggatgcag 60
tgaatgacgg gctcggaac ctcaacatca gccagggcac cgtcctgacg cccccggcgg 120
tgcaggccgt ctgcgactcc ttcccggcgc tgcacacctg ccccgacagg cactccctga 180
tcatcagtgg ctgcctcagc ctcacgtgag cccactgcgc ctgcgccccat caccacacc 240
gtgccaggag agccctgatg gcccaaccatg cgtactaata aacatgttgg tggcagtgc 300
ctgaaagtcc acgggaatgg ggacgcatgc ccgggggggtg at 342

<210> 12657

<211> 223
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-010-Q1-K1-A4

 <400> 12657

 gccgtaccgg tctcggattc cggggtcgac tccacgcgtc cgacttgaac ggaggatttc 60
 cggctctgaat aatataaatg cacgcttgca actatatcca tggaataaga atgggcggcc 120
 gatctaacgg atccaagttt cagtactgca tgcattgcaac gacataaata ttatatagag 180
 taacctaaat gcaatccact gtccgtgatt caacaacata ttc 223

<210> 12658
 <211> 137
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-010-Q1-K1-A9

 <400> 12658

 accggtctcg gaattcccgg gtccgaccca cgcgtcacgc ggacgcgtgg gtggctttct 60
 cctccccctc tcggttcggg ttacgggatt cgcgaggac tagcggggat tcgggatcaa 120
 gagatcgagc ggatcag 137

<210> 12659
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-010-Q1-K1-C6

 <400> 12659

 tggagctctc tcgcaagctc ttcacggccg tctctctcgt catgctgctg ctgctgtccg 60
 cagaggtcgg gccggtggcg gtggcggagg cgcggacgtg ccagtcgcag agccacaggt 120
 tccggggccc ctgcctccgc cgggtccaaact gcgccaacgt ctgcaggacc gaggggttcc 180
 ccggcggcag gtgccgcggc ttccgcgcgc gctgcttctg caccacgcac tgccactgat 240
 tcgctcgcgc agcggccggc tggcgtcgcc gtcgatcgcg cgcgtcgca ccagtccatg 300
 gctccatgca tgaataacaa ggggtgtcgg tttgtgatgc caaattgtat cctctcgtcg 360

tgtgttgaag cgttcgatcg tcggtctagt agtgtgcctg tgagcagcgg cgtgctgttg 420
tacgtacgtc 430

<210> 12660
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-D1

<400> 12660

gcctgccgtc cgtccggatt cccgggtcga ccagcgtccg tccggtttcg cagtaggggtg 60
gcgatggtag ctgacgcgaa ggaagatggg attgagtaag tgagctatta aacttgttgc 120
ttatagacag caatgcaact accatgattg atccagatag ctgatgtgag acctgtagcc 180

tttttgacac aacaacagtt gagggcgtta tacctgtacg ctgcatctaa cgctgtcacc 240
atattacaac tgcaacaatc gctgtcatta aaccaacttg ctttgacaaa cacaacaacg 300
ttataccaac aacccatcat tggcgggtgcc ctatttttaga ttgcttatga gttatagttc 360
aataatgaag ttttttgga gatgtttgtg gtttcccaga tataagaaag cacatttcta 420
gattctataa ataataataa tttttttt 447

<210> 12661
<211> 171
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-E6

<400> 12661

acgtccgcga tctacaacta gtggacgcgt gtgctaagtt atttgtggac acatcaccaa 60
tagaaaggct acgagtaa at gttgatactt tctaaacgaa ttaaactgtt tttaagctat 120
tgggtgatct tggagtttct tggggaaaag agttcgagca cttttaataa t 171

<210> 12662
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-E9

<400> 12662

ttcaaaactt cgacatgctc ctagtgtcca ctttcaagag agagttcctg acacagaaat 60

acctgagcaa gatgaagacc aagatgatcc agatgaacga catgatcctg actctgatat 120

ggaagtggat gatcacaagg ctgtggaaga gtcacgagg aggagcattc taggtataaa 180

aatcaagaga gaatttgggtg aaaatgcgac cagagtacag gatggtggca gagtcgcac 240

tgaacataga ggactggaac ccatggcaga agacatcggt tctccaagc aagctcctgc 300

agatgccagt gcaatggcca tcgatgaacc aagcaatgtc aagaatgaac ctgagagctc 360

aactaaattg caaggccaag cagctgcgta ccacaagcca tagctgcgac catcaagagt 420

tgc 423

<210> 12663

<211> 78

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-F3

<400> 12663

aaaaaaaaa aaaaaaaaaa aaaaaaata aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

ataaaaagcg aaacgaaa 78

<210> 12664

<211> 267

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-F7

<400> 12664

tgccctcttt tagattgctt attagatgta attcaataat aaagtttttt ggatgatgta 60

tgtggccaac cagaaataaa aagttacatt tccaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaa aaaaaaaaaa aaataaaaaa aaaagcacia aatataaaaa aagaagcctc 180

ctaaaataaa aactatgggtc tctgctatta cagaataagc ctattctaca ttatgatggg 240

ccattataag tgcacattga tattata 267

<210> 12665

<211> 214
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-010-Q1-K1-G5

 <400> 12665

 cccacgcgtc cgccgcacca acccctgtgg cgtctccgct gccattccgc cctactactg 60
 attcatgata tttgggaaat ctctctatc catctctctc tatctatata tgtaataatg 120
 cagtaagacg acacacatta tcatgtgtgg tatgaccaat aatatatgca tggtcataat 180
 aaagttttgg ttttaaaaaa gaaaatacac gatt 214

<210> 12666
 <211> 354
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-010-Q1-K1-G8

 <400> 12666

 tcgagctcga gtccttcggt tacgaagacc atgaccacgg ccaccaccac caccaccacc 60
 atcaccacag ccacggcgac atggagacat cgcccatggg cgtgtggctg agcgcgatgg 120
 ggtgctcgct gctggtcagt atggcgctcc ttgtctgcct cgtcctcttg ccggtcattc 180
 tctttaaggg gaaaccgtct aaggccatag tggattcgct tgcagtgttt ggggcaggag 240
 ctatgcttgg agattcattt ctcatcagc tggcacatgc ttttgggtgga gggcattctc 300
 actcgcatga tcatgagggt catgatcatg ctcatgctca tgaacatgca catg 354

<210> 12667
 <211> 337
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-010-Q1-K1-G9

 <400> 12667

 cttgtgtcca tcgacactct aattgaggac caccttacgc aagagcccat caatgagtac 60
 gtccagagtt gcgacattgt ggctttcaac aagatctaga gttcagtttc tgagtttggg 120
 caacggcagc ggctcagctc gtcaagtttg tgctgggatg ccagtttatc ctttctagtc 180

tattacagaa acgttggtcg gagctgagtc tattataaac atcttggtct gagtttattg 240
 ttgagtggty ccagtttttt tcaatataca tttatcttaa aaacagcggc actgatgttt 300
 ttttgtctaa agttaatgag tttgcaaaac aaatgct 337

<210> 12668
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-H10

<400> 12668

gtaccgtccg gattccccgt cgaccacgagc tccgtcttgc gtatcctctg atgcctctgt 60
 tagagcaatt gaaacaaatc tgctgtggat gatcagcaat ggctcacgta ctgggtgctg 120

tactcattta tcaactctatt cgagctcacc tttgctccgg tactcgaatg gcttctttct 180
 ggtcttatgc aaagctgttc ttcaattgct ggtagtatt gccacagttc aatggagctg 240
 cacatgtata tgagcatttt gtgaggccaa tgattgtaaa tcagcaagtt gtaaacaatct 300
 ggtatattcc aaagaaggat gaatcaagta gacctgatga tgtaatttca gctgcacaga 360
 ggtacattga gcaaaatgga tcaaaagcgt ttgagaatct tgtaacaag ttaagagtt 420
 cgaaccaag gcgctcaatt ct 442

<210> 12669
 <211> 326
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-H8

<400> 12669

gccggctgct gtcaagttcc atctgtttgc tategcagac atgtatggcc gcggcaaggg 60
 aggcaaggac ctgagtaacg gcggcgcgaa acgccaccgc aagtgctcc gcgacaacat 120
 ccaaagcatc acgaaccggg ccatccagag gctggttcga aagggcagcg tgataagcat 180
 ctccaggctc atctaccatg agacctacgg cgtgctcaag atctatatcg agaacgcat 240
 ccgagacgcc gtaaactaca cggagcacgc ccggcgcaag accgtcacag ccatggacgt 300
 cgactacgcy ctcaagcact atggtc 326

<210> 12670
 <211> 279
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-011-Q1-K1-B1

 <400> 12670

 acccacgcgt ccgcctcaca gcgtcgacag catcctctac ttcagcagaa agtactgaaa 60
 gcaagagctg ggctgatctg ggcttgccgg gaggcagccc aactctgaag ttatgtttcc 120
 ctagactgcc catgttccga ggattagcat cagcattcta gctacaaaca tttcagatat 180
 ctttcttgta agggcaaaca ttatggcata cctagattca cttttctctgc ttgtaatttt 240
 gatctteatt-ttgaagtaat-aagtacttga gttaagggg 279

<210> 12671
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-011-Q1-K1-B12

 <400> 12671

 cggattccgg gtcgaccag cgctccggcc gcgtccgaaa cacatggaaa atcgattca . 60
 tgtaccacca ttgaccgaca gtgtagggca atatcttatg catcctgatc cttctggatg 120
 tgctggtacc tgaaccatac gccaacattg ctcataagct cttataactt cctatatattg 180
 cccatacctc tcaatacctg tgattaaaga ctgttaaaac ctaataatac aaacctacac 240
 gatccaacag gctataacaa gcagtatcat aactcaatta accttgatca tccaacaact 300
 gtcaacaata ttacagcata tacctggggc acatatgggtg acacaccata tcaacgcaca 360
 acatctacaa catcttgcta tcagaaacca tgctagctac tctgagcaac attagttcct 420
 accattaataa c 431

<210> 12672
 <211> 472
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-011-Q1-K1-B2

<400> 12672

aattccccggg tggacccacg cgtccgctga tgtcttatct gagtcgagcc tgtttgtcta 60

cccgtaacaag attgtgatca agagctgtgt aagtacaaag cgtctgctcg ctattccgag 120

gatccttgaa cttgctgaag agctcctgtt gccactcgtc gcagttaaata actccccgtgg 180

aacgttcata ttcctgaag cacaaccttc cccacacaag aacttcgctg acgagggtgc 240

cttcctgaat cgtttcttcg gtggcctcaa gtccggtggc aatgcttatg tgattggtga 300

ctctgcgaag cccgggcaga agtggcacgt ctactacgcc gctgagcacc ctgaggagcc 360

tgttggtact ctagagatgt gcatgactgg gctggacaag aagaaagctt ctgtcttctt 420

caagaccact gctgatgggt actcgtctgt cgccaaggag atgaccaagc tc 472

<210> 12673

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-B9

<400> 12673

gcgacgcgtc cggaactctc ctgcttattt acagcagcaa caactactac cattcaggca 60

gcgagctggg gtgagccctg ctaccttctt gacacaacca caattgttgc cgttctacca 120

gcacgctgcg cctaacgctg gcaccctctt acaactgcaa caattgctgc cattcaacca 180

acttgctttg acaaacccaa cagcattcta ccaacaaccc atcattgggtg gtgccctctt 240

ttagatttct tatgagttat agttcaataa taaagttttt tgtctgatgt ttgtggcttc 300

ccagaaataa gaaagtacat ttctagattc taa 333

<210> 12674

<211> 477

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-C2

<400> 12674

aattccccggg tggacccacg cgtccgcgcc ggagttacta ccccgagtta cctcgtcttc 60

tttgtcaggc atttctactc gcagctatca tcgagatctc ggagctggcg tccagttgca 120

caacggcgat gacctcgctt acagttttcg cgccaagaag gccgtcctgt tcaaaccaga 180
 taatgggttc ctaggtctga accttaaagg ggcctactt accgataaag agttgaagcc 240
 gacgaagaca actggatccg ttgaactggc atggaccata cttgacttga aacagggcca 300
 agacgtaagg ctcaaagttg gttacgaatt gtgtgacaag gtgccttatt tccagctcag 360
 agagaacggt tggacgctga atgcttatat ggatgggaaa tgggatgtta gatttgaaat 420
 gtgaatccac ttgctcagta gtgttaccaa ttctacttgt ctgtactgca cttggaa 477

<210> 12675
 <211> 475
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-C3

<400> 12675
 aattcccggg tcgacgccac ggcgcgcgcg acgcgtccgg tgaaaagatt ggtgcaacag 60
 cccgtttctg gcgattttct gctggttctt atcgagacct tatagaggca ttaccaaaaa 120
 aaccgcttac atctgtaaata aagacagtga atggcagttt tgttcgacca tccaatgctg 180
 ggggcgatgt ttatcctgtg gaatcttacg agagctcagc taaccaagta cttgatgctc 240
 actgggggtgt tctggatgat gatgatgcaa ctggactttg ctgcataacc ctctccatcc 300
 ttgtgaatga ttgtcctggg gttctcaaca ttgtaacagg agtctttgct cgcaggggct 360
 acaatataca gagccttgct gttggctcag ctgagaagga aggcatttca cgtattacaa 420
 cagttgttcc tggtagttgt gaatccattg ggaaattagt tcagcaactt tacaa 475

<210> 12676
 <211> 451
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-C4

<400> 12676
 attcccgggt ggacccacgc gtgcgggctc atggtcgtgt aatatttgcc agtggcagtc 60
 catttgaccc tgtggagtac gaggggaagg ttgttgatcc tggacagtcg aacaacgcct 120
 acattttccc tggatttggc ctgggtcttg ttatctctgg agccatccgt gtccacgagg 180

acatgcttct tgccgcctcg gaagcactag ctgctcaagc cacacaggag aacttcgaca 240
 agggatcaat cttcccgccc ttcaccaaca ttagaaagat ctctgcgcgc attgccgcag 300
 ccgtggctgc aaaagcttat gaactcggtt tggcgacccg tctgccttcc ccaaaggacc 360
 tggtgaaata tgcacagagc tgcattgtaca ctctgttcta ccgtaactac cggtagtgct 420
 gctgggatca attctgcagt aataaaatat g 451

<210> 12677
 <211> 379
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-011-Q1-K1-C7

<400> 12677
 cccggtcgac cagcgctccg gtancatcag tggtgctggt ggcacttcca agggccttgt 60
 ggttcgtggt atccgggatg ctgataccat gaactttgct gacattgaga aagggataaa 120
 caaccttgca aagaaagcaa ctgagggggc gctctcaatt gatgacatgg caggtggaac 180
 attcaccatc tccaacggtg gtgtctatgg aagcctcctc agcacaccta tcatcaaccc 240
 tccacagtcg tctattctgg ggatgcattc cattgtgcaa cgccctgtgg ttgtgaatgg 300
 tgacatcctt gcgaggccaa tgatgtacct tgcgctgact tacgaccaca ggttgatcga 360
 tggcagagag gctgtcttc 379

<210> 12678
 <211> 105
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-D1

<400> 12678
 gagcgacaaa gctagctctc tccaggggat cggattctga tcaccatgcc gtccaccgt 60
 aactccgggt cctcagacca gaaccttgag ctgcgaagc aatgc 105

<210> 12679
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-D5

<400> 12679

accggtccgg aattccccggc tcgacgccac gcgtccgcgc acggtccgc cataccccac 60
cttttgtgtg atggataaga ttatagatgg attggaacac ttcgcagcat ggcacatggc 120
tagcctgcta gcgtgcggca cccacacaac acaacacact gctcgccaga agcgccccat 180
gaggccaggg gaggacacga caccgccatc agccatcatc atcatctcat actcagagca 240
tgccatggca cgcaactgac tgactgactc gaaacacaca catcgactcc gctatacttt 300
attaagcttt ataattaact agcttctctc ggccggcctg cacggtggag cacctagctc 360
actttccgca gttgcaagga tctcactgtc agttgcctcc atacttgac ctttcatc 419

<210> 12680

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-D9

<400> 12680

ggattccccg gtcgactcac gcgtccgaaa aaaaaaaaaa aaaaaaaaaa aaattaaaaa 60
taaaaaaaaa aaaaaaaaaa aaaaagaaaa agaaaaataa caatttatgg aaaaccaaaa 120
taaacaatca ctcttacttc catcttatta actctttttt attgccactt aatttcaatc 180
tattgccctt tttttaacaa cattaataac ttataaaacc ctgacattac ccaatttaat 240
cccttttaaa aacatccccct tttcctaatt tagcttacta ccaataaatc ccctttcgtt 300
cccctttcct aaaatttact caccctaatt tacaattggc acactccctt taccctccct 360
ttaccacact taatctcctt gctttaacat ccccttttac ccatactttt taaatcccat 420
tagtccctta cccttttcct tttccaacaa tttc 454

<210> 12681

<211> 419

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-011-Q1-K1-E1

<400> 12681

attccctggt cgacccactc atccggagga tcccagaggc catcctgtac tatagggact 60
acatggtacc ctntgtact ntgatcaatt tgaaattttg ccaaaccacc tctttcccaa 120
atcataactaa tttactgcac ctcaattttc cttttcagaa accttcatac tttcacacca 180
tatctatctt cacaatacat atcttattac catacatttt atcataacat taattgaact 240
atttccaata ctcttgttct tttcacatac cataattcct agtcaattga atttaccact 300
cttgcaatat tcattctgat cataatccct caaaaatttt tataccacaa tacatttaaa 360
ccttttaata cttataatca tatatttaat aaatcctatc aaattattaa atattacca 419

<210> 12682

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-F10

<400> 12682

tggacatcct gcagaagggtg ttctaccgct ccaacgcggc gcgcgaggcc ttcgttgaga 60
tgtgcgccga cgactacgtg cagaagatga ccttcgacag ctacctctac aagcgcgtcg 120
tgccgggcaa cccgctcgac gacatcaagc tcgccgtcaa caccatcggc agcctcgtca 180
gggccaccgc actgcgccgg gagatggaga aggtcacctt gtgagccgcc gcccgcgacg 240
tcattgccgt cgaaatgggtg tcgcagctga tcggccgggtg tattagtaga gatttgccgc 300
tgatcgggtt aatttaggcc aacatgcgtg ggcagtgggc gcggagagga agagaaacaa 360
gttgtgcaag tgcagcaagt agatcaaaag tgctgcctgt ttgtatcgat ggatcctgca 420
acatatagca tat 433

<210> 12683

<211> 477

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-F7

<400> 12683

taccggtccg gagttcccg ctcgacgcca cgcgtccgag caacatagaa agcacaatag 60

tgtaccaaca atggcagcca aaataggttg cctccgtatg ctccttggtc tttctgcaag 120
 tgctgctacg gcgaccatit tcccgcaatg ctcacaagct cctatagctt cccttcttcc 180
 cccgtacctc tcaccagtgt tgtcttcagt atgtgaaaac ccaattcttc aaccctacag 240
 gatccaacat gcaattgcat caggcatctt acctttatca cccttggttc tccaacaatc 300
 atcagcccta ttacagcagt tacctttggt gcatttattg gcacaaaaca tcagggcaca 360
 acaactcgtg ctagcaaacc ttgctgcta ctctcagcaa caacagttac ctttggtgca 420
 tttgttgga caaaacatca gggcacaaca actacaaca ctcgtgctag caaacct 477

<210> 12684
 <211> 333
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-G1

<400> 12684

cggacgcgtg ggttgaggac caccttacgc aagagcccat caatgagtag gtccagagtt 60
 gcgacagtgt ggctttcaac aagatctaga gttcagtttc tgagattggg caacggcagc 120
 ggctcagctc gtcaagtttg tgctgggatg ccagtttatc ctttctagtc tattacagaa 180
 atgttggtcg gagctgagtc tattataaac atcttggtct gagtttattg ttgagtgggtg 240
 ccagtttttt tcaatataca tttatcttaa aaacagcggg actgatgttt ttttgcctaa 300
 agttaatgag tttgcaatgg ttctgagttc aaa 333

<210> 12685
 <211> 450
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-G12

<400> 12685

ccggattccg ggtcgactca cgcgtccgcc cagcgtccg cccacgcgtc cgcccacgcg 60
 tccgcccacg cgtccggcac aatagggtag cgacaatggc agccaaaata ttttgcctcc 120
 ttatgctcct tggcttttct gcaagtgtg ctaccgcgac cattttcccg caatgctcac 180
 aagctcctat agcttccctt cttccccctg acctctcacc agcgggtgtct tcggtatgtg 240

aaaacccaat tcttcaaccc tataggatcc aacaggcaat cgcagctggc atcttacctt 300
 tatcaccctt gttcctccaa caatcatcag ccttattaca gcagttacct ttggtgcatt 360
 tattggcaca aaacatcagg gcacaacaac tacaacaact tgtgctagca aaccttgctg 420
 cctactctca gcaacagcag tttctttcat 450

<210> 12686
 <211> 237
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-011-Q1-K1-G6
 <400> 12686

cccacgcgtc cgccccacgeg tccgtgtact ttgatgaaga gaggaagca tgttttgccca 60
 caactgatgg attgtttgtt taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaataaaaa agatcaaagt 180
 ttaaatacag atgcatgcaa tgtaataact tttaaaaagt gtacctaat ttaatta 237

<210> 12687
 <211> 442
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-012-Q1-K1-A12
 <400> 12687

accggtttcg gaattcccgg gtcgagccac gcgtccgtgt tcttccaaca accgtcagcc 60
 ctattacagc agttaccttt ggtgcatttg ttgggacaaa acatcaaggc acaacaacta 120
 caacaacttg tgctaggaaa ccttgctgcc tactctcagc aacagcagtt tcttccattc 180
 aaccaactgg ctgcattgaa ctctgctgct tatttgcaac aacaactacc attcagtcag 240
 ctagctgctg cctaccccca gcaatttctt ccattcaacc aactggcagc attgaactct 300
 gctgcttatt tacaacagca acagctacca ccattcagcc agctagctga tgtgagccct 360
 gttgccttct tgacacaaca acagttgttg ccgttctacc tgcacgctgc gcctaacgct 420
 ggcaccctct tacaactgca ac 442

<210> 12688

<211> 171
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-012-Q1-K1-A2

 <400> 12688

 taccggttcg gaattcccgg ctgcagccca cgcgtccgcc caccggtccg cccacgcgtc 60
 cgcccacgcg tccgaaagct agctctcggc ananatggga ttctgatcac catgccgtcc 120
 accgtgaact ccgcgtccct cgaccagaac cttgagctcg ccaagcaatg c 171

<210> 12689
 <211> 250
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-012-Q1-K1-A6

 <400> 12689

 attccccgtg gacgcacgcg tccgccgagc gtccgcttcg ccttgcgagg ttgcggaggg 60
 gaggtgtag tggtagggtg tgcangagtg ctctgcccat ggagaaggcg gggcaacaac 120
 gccatgttat cggcggcggc ggcaagaagg cgcccgcgct ggggctgcag aagcagaact 180
 cgtggtcgcc ggacatcgag cgcgacgagg cgtgggagcg ccggctcagg ggcagcgcc 240
 gcgggggcac 250

<210> 12690
 <211> 241
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-012-Q1-K1-A8

 <400> 12690

 ttaattcccg ggctcgacca ctcgtagctt gtttttttat ttttttaata ttttttttta 60
 tttttatatt tttttttatt ttttaagttt ttttaatat tttgtaaatt tttatttttt 120
 tttttatatt taattttatt ttattttttt gtttaatttt ttaaattttt ttttcattaa 180
 aaaaaaaaaa ataaaaaaaa ttatactata aattaaaaaa aatttaaaaa aaaaatataa 240

<210> 12691
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-A9.

<400> 12691

ggaattgccg ggtcgagcca cgcgtccggg agcagctagg gttccgtcct cgatccgatc 60
cgccgagtgc acaccacctg tcccgtccg atcgaatcga tggccgccga gggcgagaag 120
aagatgataa ccctcaaaaag ctccgatggc gaggagtctg aggtggaaga ggcggtggcg 180
atggagtgcg agaccatccg ccacatgacg gaggatgact gcgccgacaa cggtatccct 240

cttctaacy tcaactccaa gatcctatcc aaggtaatcg agtactgcaa caagcacgta 300
catgccgccg ccgccgccg cgccgectcg aaggccggtt ccgacgacgt gggcgccgcc 360
tccgccaaca gcaccgccg ctccggtgag gacctcaaga actgggatgc ggacttcgtc 420

<210> 12692
<211> 136
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-B1

<400> 12692

gtcagtgtga gcaatgacac tgccacccat ggtgatgcgt gacacattag gactcaagga 60
tcaccatggg tggcagtgtc agtgtgagca atgacctgaa tgaacaattg aaatgaaaag 120
aaaaaagtat tgttcc 136

<210> 12693
<211> 258
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-C11

<400> 12693

gaaattttct gttgtagctt aaaagatgat tgtatagtaa cacggtacta tgagatgtgt 60

attatattgc tatgaaaacc ttgtcaaggt cctgtatttc caactaaatt tatacctgtt 120
 tgaaaatttt tgagcagacc ctaaaaaaaaa aaataaaaaa aaaaataaaa aaaaaaaaaa 180
 attaaataaa aaaaagggcc ggccggtttta aaggatcaaa gttaacgtac ctttccttcc 240
 aacgtaatac ttttttaa 258

<210> 12694
 <211> 420
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-012-Q1-K1-C3
 <400> 12694

aagcaacata gaaagtggaa tccagtatca acaacagagc aacaatggcg ggcaagaggt 60
 tttccctcct tatgtccctt gctctttctg catgtgttgc taacgcgaca attttccttc 120
 aatgtcaca agctcctata gcttcccttc ttccccata ccttccatca atgatagctt 180
 cagtatgtga aaaccagct cttcagccct ataggctcca acaagcaatc gcagcaagca 240
 acataccttt atcacccttg ttgtttcaac aatcgccagc cctatctttg gtgcagtcac 300
 tggtaaaac catcagggca cagcagctgc agcaactcgt gctacctgtg atcaaccaag 360
 tagctctggc aaacctttct ccctactctc agcaacaaca atgtcttcca ttcaaccaac 420

<210> 12695
 <211> 353
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-012-Q1-K1-C8
 <400> 12695

gtccggaatt cccgggtgga cgccacgcgt ccggtgcctg aggcagccgc agagcagccc 60
 tttggcggct gcgccctact acgcgggta gaggcattgt agcgccatgt accatccgct 120
 ccggcaacag tgctgccagc agcagatgag gatgatggac gtgcagtccg tcgcgcagca 180
 gctgcagatg atgatgcaac ttgagcgtgc cgctgccgcc agcagcagcc tgtacgagcc 240
 agctctgatg cagcagcagc agcagctgtt ggcagctcag ggtctcaacc ccatggccat 300
 gatgatggcc cataacatgc cggccatggg tggactctac catgaccagc tgc 353

<210> 12696
 <211> 217
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-012-Q1-K1-D1

 <400> 12696

 aattcccggg tgcacccacg catccgcgga ctctgtggtcg gacgcttggg caacaattgc 60
 tgccattcaa ccaacgtgct tttgcaaacc taacagcatt ctaccaacaa cccatcattg 120
 gtgggtgccct ctttttagatt tcttatgagt tatagttcaa taataaagtt ttttgtctga 180
 tgtttgtggc ttcccagaat taagaaagta catttct 217

<210> 12697
 <211> 179
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-012-Q1-K1-D3

 <400> 12697

 tcccggtcga cgccacgcgt ccgtccagtt ctctttgatg aacctgcct tttcgtggca 60
 acaaccatc atgggaggtt gcatctttta gatgacatat gagatgtaat cgataatggt 120
 gccctcatc cggcattgtt ttcctagaaa taatcaatat attgattgac atttatctc 179

<210> 12698
 <211> 370
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-012-Q1-K1-D5

 <400> 12698

 acgtccggaa ttcccgggtg gacccacgcg tccggagaat gagagctaca agaagctgat 60
 tgcagacatt gaagcccagc caagcattgc gggcatata gtgctgaaat ccttcttgca 120
 caagatctac aagaggcaga agtaggggtc tcttgataa acgagctcag gagtcgttac 180
 tccttcgcat gcttgacata accggacttc ctcacctggt tgctctagta tgatgtggag 240
 cgtctagtta aaaaaaatcg atgtagtatg aaacaacctg cttggtctaa ttttaaccag 300

gctattaagg caaagtgctg tatcggtttg gtggaccgta tgttgagat aataaattag 360
ttagtttgc 370

<210> 12699
<211> 467
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-D6

<400> 12699

tccggaattc ccgggtcgac gccacgcgtc cgcactccgg ttcgtacctc gcacaggggc 60
tgccgcaagg cagctctgag gggatctcag cggcgacggc gggcgacag cgaccgccgg 120
gctcgaggat tgcacggag tgaacaaggc tgagcgtcgc ctcatccga ctccgatcc 180

ccaacggaaa gcggagccag gaccgggagc tggagcagtt gtcttcccc ctcgtctccg 240
tcaactggtc tttaattctc tctttacaca tatcttgga tttaattctc tcatcaccag 300
cgtaagaaaa aaccatttga agctaaattt ttcaacaagc cacttgagaa ctaccattac 360
atggctgtta tatttgggaa tcatcaagca actggactat ttgcaaatg caccagtgat 420
cccctaggtt tcgacacatc tgaaagtgca tgtacatatg gtgtggg 467

<210> 12700
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-D8

<400> 12700

tcttcattca ctactctct tcgatcactg tactgaagat accatggcca agtcgacggc 60
gatgtgtgta gccgccctgg ccctgggtgg ggtgatggcg acgacgagca caggcgggtg 120
cagggcgcca gcggcgtgcg atcccaagcc gctgggtggg tgcatccgg cgttcattga 180
cggagcga aaa cccgcggcag catgctgctc caccctgcgt gcgcaggagg catgcttgtg 240
cgtgtacgcc aaagacccca agtttgcaaa atacatcaac aacccaaca cgtcaaaac 300
ctttacctcg tgcggcatag ccaccccaa atgctaagca agcgtctctg gtcgtcgtt 360
cgcttgcctt tgctcttgtg tgtaacatat ccagcttatg aataaattat gtggatc 417

<210> 12701
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-012-Q1-K1-E12

 <400> 12701

 taccgtccgg attgccgggt cgactcacgc gtccgattct ttgggtaagg atacaggatt 60
 gggcaaattt catatttaac tttgtagagg agaacggggt ggaagtaatg actatcgaag 120
 aaatacgtc tggaattgat acacgtggaa ctgaactcga gggaattgat cgtggtgttc 180
 tcatgcgggc tctgcggcag ttggagcaaa agggaaaggc agctatcttc aaaggcacct 240
 ctgctgatga cgaaggegta aagttttcgg tgtaattatt ttgcgaccc taaactggca 300
 gactaataat ctcggttcagc cgggtgccctt gaacatggca tgacacaccc atagcctcga 360
 tcattcagtg ccccttgaaa atggcatgac acatccttgt aaaaagcagt agggctgac 420
 acattcttcc cgagtgggat cc 442

<210> 12702
 <211> 285
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-012-Q1-K1-E5

 <400> 12702

 ggaattcccc ggtgcgacgc cagccagtc cgactcgatt cctccgcaac aaccactctc 60
 nngcctgcga tcgttcgtag cctccgtca gcagtcgagc agcngatcag tgtcggctct 120
 acnntgcgga aagtaccaag gatgagccct catcaagaat gcctgccta cattggcatc 180
 ccccggaan gggatatttc ttgctgctga tgaagtccaa actggcacca tnntggcaag 240
 cgccctttcc aaagcatcaa tgttcgagat acgnnttgag gagaa 285

<210> 12703
 <211> 311
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-012-Q1-K1-E6

<400> 12703

ggaattcccg ggtcgaccca ctgctccgcc cagcgcgccg tgcttgtttt tctctttgtt 60

gttcaaacac ttacaccca aataaggaac ttcagtgaca ttaatttttg ctgcaccaa 120

gttacatgaa ctgaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gggcgaccgt 240

tttaaaggat ccaagtttac ttacccttgc ttgcaacttc aaattttttt tatagggaaa 300

cctaaattaa a 311

<210> 12704

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-012-Q1-K1-F12

<400> 12704

taccgtccgg aattccccgt cgagccacgc gtccgcattc aaccaacttg tcaggagccc 60

tgctgccttc ttactgcagc aacaggtggt ggcattccat ctacaagttg tggcaaacad 120

tgctgctttc ttgcaacaac aacaattgct gccattttac ccacaggttg tgggaaacad 180

taacgccttc ttgcaacagc aacagttgct gccattctac ccacaggatg tggcaaacaa 240

tgctgccttc ttacaacaac aacaattgct gccatttagc caacttgctt tgacgaatcc 300

taccacctta ttgcagcagc ccaccattgg tggtgccatc ttctagattt tttatgcttt 360

atactgtaat aataaagttc tcatactgat atgtgcaact tctcagtaat aaaagattag 420

agatctatat tntaagttc 439

<210> 12705

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-F4

<400> 12705

taccggttcc ggattccccg gtccgccact ctccgggaaa ccattgttc aacctacagt 60

accacaggca atcgcaacgg gcatctgaca ttatcacctt tgttctctca acaaccgtca 120
gccctattac agcagttacc tttgggtccat ttgggtggcac aaaacatcag ggcacaacaa 180
ctacaacaac ttgtgctagc aaaccttgct gcatactctc agcaacatca gtttcttcca 240
ttcaaccaac tggctgcatt gaactctgct gcttatttgc aacaacaatt accattcagc 300
cagctagttg ctgcctaccc ccagcaattt ctccattca accaactagc agcattgaac 360
ttctgctgct tatttacagc agcaacaact actaccattc agccagctag ctgatgtgag 420
ccctgctgcc ttcttgacac aacaacagtt gttgc 455

<210> 12706
<211> 450
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-012-Q1-K1-G5

<400> 12706

gtccggattc cgggtcgacc cagcgtccgc ggacgcgtgg gcaactatcg cgttctctct 60
acttccggtc ttccaaaatc cggagttgag aaccagcaga gcatgcctct tctttggcat 120
gggtgcatct ggcgtgatac ctgttcttca caagctagta ctcttctggc accaaccgga 180
ggcattgcac acgaccggat acgaaattct gatggggctc ttctacgggc tgggagcatt 240
ggtatatgcy gcacgggtac ctgagcgtg gatgcctgng aagtttgaca tcgccgggca 300
caaccaccag ctgtttcacg tcttggttgg tgcccagacc tacacacact accacgcagg 360
gcttgtgtac ctcaagtga gagacctgca aggctgctga aaggtactgc atcgttgagg 420
atgtggatag attgtagatt ccgggaattc 450

<210> 12707
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-G6

<400> 12707

aattcccggg tcgacgccac gcggtccgaga aatccatcga gaggccgtcg acaggggaat 60
taatggcgctc gtcgtctagc atcagccacc ggggcctcat cctcgcagcc gccgtcctgc 120

tctccgtgct cgcggctgcc agcgccagcg ccgggacctc ctgctgccc ggggtgggcca 180
 tcccgcacaa cccgctcccc agctgccgct ggtacgtgac cagccggacc tgcagcatcg 240
 ggccgcgcct cccgtggccg gagctgaaga ggagatgctg ccggaagctg gcggacatcc 300
 cggcgtactg ccggtgcacg gtactgagca tcctcatgga cagcgcgatc ccgcctggcc 360
 cggacgcgca gctggagggc cgct 385

<210> 12708
 <211> 312
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-012-Q1-K1-H4

<400> 12708
 aattcccagg tctaccacg cgtccggtct tcagtatgtg aaaaccaat tcttcaaccc 60
 tacaggatcc aacatgcaat tgcagcangc atcttacctt tatcacctt gttcctccaa 120
 caatcatcat ccctattaca gcagttacct ttggtgcatt tattggcaca aaacatcatg 180
 gcacaacaac tcgtgctagc aaaccttgct gcctactctc agcaacaaca ttaccttta 240
 gtgcatttgt tgtcacataa catcagatct caacaactac aacaactttt tctagcaatc 300
 ctttctaact ac 312

<210> 12709
 <211> 453
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-012-Q1-K1-H7

<400> 12709
 ggaattcccc ggtggaccca cgcgtccgag tgagaaagcg agcagctacg aactccgtt 60
 gtatgcaagc tttggtcagg gttcaggccc gtgtgagagc aaggcgagtt cgcattggctt 120
 tggaaaacca gactgatcgg caaaataactt caccagagca cagatcgag gcacgtgtca 180
 gagaaatcga ggatggctgg tgtgatagta tcggttctgt gggagatata caagcaaac 240
 ttctaaagag gcaggaagcg gcagctaaac gtgagcgagc catggcctat gctctagctc 300

atcagtagca agcaaattca agacaaccta cagcatttga acctgacaag aacaacttgg 360
gctggaattg gctagagaga ttgattgctg ttcagccttg ggagaatcng ttccttggca 420
cttacgggac agatgggatt tttgtagtta atg 453

<210> 12710
<211> 191
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-013-Q1-K1-A10
<400> 12710

cacgcgtcct cgcactgcta tgcctctatg ccggatttca ctccaatcac ctgccgtaac 60
agctcgaagc aggcttacga attagaaaac gaagcaaacg aacttatccg catcaagaac 120
tatctctatg gcaagctccc ggtgcacaca ggccattctg tcgaaaaaat ccatgagaac 180
ctgtctaggg t 191

<210> 12711
<211> 447
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-013-Q1-K1-A12
<400> 12711

taccggttcg gaattcccg ctcgaccac tcgtccgccc actcgtccgc ccacgcgtcc 60
gcgaactcgt gggaaaaaaaa aaaaaaaaaa aagaagaaat attaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaggac caccatttta aagaatccaa tttaactttc ctttgcttac 240
aacataaaac tttttttata tcattcccaa aattaaatta acttcccgta ttttaaaaaa 300
atactaattt gaaaaaccct gggataacca aattaaatca ctttgctaaa aatccccctt 360
tcacaaattg gcgtattaca aaaaagcccc caaccaatcc cctttccaaa aaattgccaa 420
ccttaaattg caaattgaac cccccct 447

<210> 12712
<211> 296

CCGCGTCTCTATG

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-013-Q1-K1-A3

 <400> 12712

 gcgtccgccc acgcgtccgc ggacgcgtgg gcggacgcgt gggctggaat ccagagaggt 60
 tgtagcatga ggatcaaacc gtgtaacggt ttgatcctga tgctggaatc ccagagagtt 120
 gtagcagtag ctggcccaaa tgcattgctgg gtgggttttat ctattgctga tgagttgttt 180
 aagcaagatc cattcctgta ttgtactcca taagccactt ggggtgttgc ttgtattgtt 240
 cactactgtg ttttttctat gtgtgggacc gcattctacag tactagtgtc ttgtcg 296

<210> 12713
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-013-Q1-K1-A4

 <400> 12713

 cggaattccc ggggtgcgacc gacgcgtccg gaaccttcta gccgcaccta gggtttggat 60
 tggcgccgag catggcgtag gtcgaccgcg cgttctccat ctccgacgag gacgacctcg 120
 tcggcggcgc catggggggc ccgcgcgggg cgcccgtaga ggagatcgcc ttccgcgccg 180
 cgctgctcgc ctccggggcg ctcggtacca tcggtggcct gctaattggc gtcaaccgcg 240
 tcggagggga ccgcgcgcac ggaattttct tcatgatgtt gggcattgta atgttcatcc 300
 ctgggttcta ctacacaagg atcgctact atgcttaca aggttacaag ggcttctctt 360
 tttcgaacat tccaccgatc tgaaggagtg tgctgctgcc tgctggttat gaagtgggtg 420
 ccctggttta agagtttgtc gac 443

<210> 12714
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-013-Q1-K1-A6

 <400> 12714

 cggtttcgaa ttcccggcgg gaccacgcg tccgcggacg cgtgggcgga cgcgtgggcg 60

gacgcgtggg cggacgcgtg ggcgggggcg tgttggtcgt catgtccatg gctgacgtcc 120
cgctcgggtt cggcattgcg gcgaggtcgg cgcaggattg caggaaggcc gacaccaacg 180
ccgtgggtcgt gctgcaccag tcggacgccg gggagtacct ccgcaaggag gaggagctca 240
tgtgaggtga gcgcataggc ttggctgggt aggtcatatt catgagtga ttatggaaga 300
ttgtgcctta ctgttggtg ttccaaggct tggggcatat atatatgtac tgaatgatta 360
atcactgggt atgagatgcg attattgctg ttgcc 395

<210> 12715
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-A7

<400> 12715
accggttcgg aattcccggc tcgacccacg cgtgcgcgga cgcgtgggca aaggtgaagc 60
aaacatatca tatatatgtt cacgttatgg cgggtctcca tagctcatat gtggggcaac 120
tgagtacaca acatcaattg atatttggtc agctggatgt gttcttgctg agctgcttct 180
tgccagcct ctcttccttg gtgaaagtgc tgtggatcag cttgttgaga taataaaggt 240
tcttggtacc ccaacgcgcg aggaaatccg atgtatgaat ccaaactaca ccgagtttag 300
atttctcag atcaaagctc acccatggca caagattttc cacaagcgga tgctccaga 360
agctatagat ctgcgttcac gcttgctcca atattcacca aatctaagat gcactgctct 420
tgaagcgtgt gcacatccat tcttt 445

<210> 12716
<211> 305
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-B4

<400> 12716
cggattcccg gtggacccac gcgtccgcg catcgtccgc ggacgcgtgg gcgatccctt 60
catcagcacc gactacatga cctagatggt tatagtacga cactgtacac ggacagtgga 120
agcaccatga agtcaagggt aaggactcca aaacccttct ctttggtgag aaggaggttg 180

ctgtgttttg ctgcaggaac cctgaggaga tcccggtggg ttcggttggt gctgaatatg 240
 ttgttgagtc tactgttggt attacttacc tgtaataatc ctgcatctta ctttaaattc 300
 tatcc 305

<210> 12717
 <211> 377
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-013-Q1-K1-B5
 <400> 12717

agtttcacag acagcatcca ttccacagtc accagagcac tagagcagag cagcaacgga 60
 caagagcaga gcgagatcgt cgtcagcgag ctcagcagag agccagatac gagagagagg 120
 atggcggaca tcgcgttgct ggtggcggag cagtctgaga agacggcaag gcgaggcgcc 180
 cccggcgggg acggcggcag cggcagcggg accggcggcg agacgaggaa cttcggggcc 240
 gtggccaaag tgtggagctc gtgggtggag tccgcctccg ccgccgcgtc cggggtcaga 300
 ttcaccgtcg cgggtgcagct ggagcccaag accgggctcg cgctggccgn cgccgacggc 360
 ctcttcttcg cctagct 377

<210> 12718
 <211> 372
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-013-Q1-K1-B6
 <400> 12718

tgaattcccg gctcgaccca ctcgtccgaa aaaaaaaaaa aaaaaaaaaa aaaaatataa 60
 aaaaaaaaaa aaaaaaaaaa aaaagaaaga ttattataaa aatccaaact taaaaaacac 120
 atacatacaa caaaataaac ttttctatat tttcacccta catacaattc actccctcc 180
 tttttacaac ttcattactt ttaaaaccct ctcattcccc aacttaatct cttttacca 240
 cattccccct tctccaaatc cctaataccc aaaattcccc cacctatcgc cttttccaac 300
 atttccccat tctaaatata caataaaacc ccccctgtat cgctcatta acctcttcca 360

ctattttaat tc

372

<210> 12719
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-B9

<400> 12719

aattcccggtg tgcacgcacg cgtccgcccc cgcgtgcgca acaactcgtc ctcgctgtga 60
acaaaaccca tacctcacct cctatcacia tgcctttaca tgcgtgctta ttttgttctt 120
tctcttttga gctaccatta catagttgca aactgcagaa cggcttttcg catgtgaaac 180
ccgtttgaaa-aaaataatcg gctttggata ggggtttggg gtctctcttt ccctgaaaga 240
acgcacgcgc gtgctgctcg cgggtcaagcc gtgcctgtcg ccttgccggtt gcctctagcg 300
tcatgtgtaa cgcggctatg cccagtgaag taacgtttgg tccttgtgtt tg 352

<210> 12720
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-C11

<400> 12720

gaattcccggtg tgcacgctca cgcgtccgaa tagaccactg atttcacaat gaaaagtgag 60
acaatgcctt catggctaga actgtttgtt gcaacacaat tctttacgac ttgtgctaac 120
catcttcttg ctagtcgcaa tgaatgtaac ctattttgca cccagtgtga gaccaaacca 180
gctgctttct gtaactattg tcgttcaagt gatcattcca cccaccgtgt aatccagata 240
aggcgttcat cgtaccatga cgttgtgagg gtgtccgaga ttgaggatat ccttgatgtc 300
agcgatgtgc aaacttatgt aatcaatagt gcaaggattg tattcctgaa tgagcggcca 360
caactgcgtg cttctagtgt cccattttgt taggcaccta cattatcaac acat 414

<210> 12721
<211> 207
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-D10

<400> 12721

ggaattcccg gctcgaccca ctcgccgaa aaaaaaaaaa aaaaaaaaaa aaaaaataaa 60
aaaaaaaaaa aaaaaaaaaa aaaaaaaagt aaatctttat acatactacc aaacttacta 120
acacatacat acaacttcat aactatttat ataacatcac ctaacttcat ttcactctcc 180
aaactcttta caacttacct aacttaa 207

<210> 12722

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-E10

<400> 12722

tcccggatcg acccactcgt cacggtgcaa agcgctcaga tgcccaccta tttaccaatg 60
actctgcact ctatcctgac acgttgtaat atacactcct acgtctacta atcaactatt 120
ctacagacac tcgccacctt ctatgattcc cctcaccca agatttgcta tccagcaaca 180
gcttgctcca agcatgaggc ctgggggtcc tcatatgcc aactatcatg aaccggttgt 240
ccaacagggc caacaggggc cacgcccacc tattacgcgt cgagcttgag cccagggaca 300
gcaacctgcg ccatcat 317

<210> 12723

<211> 226

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-E6

<400> 12723

tgcagatcgg caggccggca gcagggaaca gcgtgctgtc cgacggcgac ctgtgcggaa 60
acgccgatcg gttcatcagt taagctaagg cggtcgtcgt gatgcttccg acccctgctt 120
tgcacgatgt ggattgtgga gtgtcagttg atgatgcac atgcatgcat gcgtacgtgg 180
gatacttgag gccgatttat tatattgatg cgagccgatc accact 226

<210> 12724

<211> 280
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-013-Q1-K1-E8

 <400> 12724

 actcaggttc accatcacca acgtctttta aactttttta cccttgaatt ttacagaacc 60
 aaaaaaatac cttggttttag cctaaaaatt catcatttcc taaaacaagg tttccaatac 120
 aaatccccta ccatcaaaaa caacaaaagg cttttacaaa acaaaatttc taccaacacc 180
 ccggttccaa caagttttatc tttttttttc aacaatcatt taaataaggg gccgtctcaa 240
 aaccgcccc aaccgcccc tccgcggcat ccctttcttt tcactccctt 280

<210> 12725
 <211> 223
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-013-Q1-K1-F2

 <400> 12725

 ccggaattcc cgggtcgacc gacgcgtccg gcagcttctg cttgctttgt gggggaagga 60
 gagagagaga gagagagatc tagtagagag ggtagtaagt ggtcctcgaa cgaagatgtt 120
 ggcggtgttc agcgggcagg tgggtggaggt gccggcggag ctggtggcgg cgggcagccg 180
 gacgccgtcg cccaagacga aggcgtcgca gcttgtgggg cgc 223

<210> 12726
 <211> 244
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-013-Q1-K1-F6

 <400> 12726

 tcccgcgtgt tttttttttt ttttttgttt tttttttttt tttttttttt ttccaaatca 60
 acaaaccttc attccggaaa gagtacttaa aacataaccg cataaaaaatt ctcatctctc 120
 tcaactactc ccatactttc tcacctcca cccctatac aatacacatc ccctcccctt 180
 tcacgacatc tccataactt ttactccatt atctcattac aaaccccctt attagtcccc 240

taat

244

<210> 12727
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-F9

<400> 12727

tattttgagc attcagaaac acaccaagcg aagctaccta gcaacgactt aacaacaagt 60
gtctaccaag atattagccc tccttgcgct tcttgccctt tttgtgagcg caacaaatgc 120
gttcattatt ccacaatgct cacttgctcc tagtgccatt ataccacagt tcctccgacc 180
~~agttaacttea-atgggcttcg-aacacctagc_tgtgcaagcc_tacaggctac_aacaagcgct~~ 240
tgcgggcgagc gtcttacaac aaccaattaa ccaattgcaa caacaatcct tggcacatct 300
aaccatacaa accatcgcaa cacaacagca acaacagttc ctaccagcac tgagccaact 360
agatgtggtg aaccctgtcg cctacttgca acagcaggtg cttgcatcca acccacttgc 420
tctggcaaac g 431

<210> 12728
<211> 362
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-013-Q1-K1-G3

<400> 12728

gctgctcaag accaggttcg gggtcgacga cgccttcaac tacaaggagg agccccacct 60
eggcgccgcg ctcaagcgct gcttccccga cggcatcgac atctacttcg agaacgtcgg 120
eggcgccatg ctcgacgccc tcctgctcaa catgcgctg cacggacgga tcgccgtctg 180
egggtcatc tcgcagtaca acctggcgga cggggagaag gacgccgtgc gcaacctcgc 240
cgccgtcatc tccaagcgcc tncgcctgca ggggttcac gagcccgacc acaagcacct 300
ntaccgcgag tacgaggcgt tgggtgctgcc gtacatcagg gacggcacgc tcgcctacgt 360
cg 362

<210> 12729
 <211> 417
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-013-Q1-K1-G4

 <400> 12729

 cacgcgtgcg gaagtcgccg gcgccgccgc gacaggatga aggagcagca gcggcagcgg 60
 aggcccggcg atctcgtctg ctgcgtgcgg cgaggagta accggagccg cgacaggatg 120
 cactcctttg ggcaccgcgc caacgcgggtg gcaacgttcg cggtcaccat actggccgcg 180
 atttgcttcg ccgcctcctt ctccgacaac ttcaacaccc cgacaccacac tgcttcgctt 240
 aagatcttga atctaaactg gttccagaag gaggccaacg gcaacgacga ggtagcatg 300

 acgctgaaca ttctcgccga cctttcgtct cttttcacgt ggaacacaaa acaggtgttt 360
 gtttttgtgg cagcagagta tgagactcca cagaatgctt ttgatcaaag ttctctt 417

<210> 12730
 <211> 373
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-013-Q1-K1-G9

 <400> 12730

 aattccccggg tcgacgccac gcgtccgggtg gaatttgctt tgaggatatgt gatgtcgttc 60
 ttcattgctga tgctatccac agggntgatg gtcaggatcat tcccactgcc aggagggtca 120
 tctatgcctc tcagctcacg gccaaagccaa ggctgctgga gccagtctac ctgggtggaga 180
 tccaagcccc agaaaatgca cttggtggta tctacggtgt tctgaaccag aagagaggtc 240
 atgtctttga ggagatgcag aggccgggta ccccgctcta caacatcaag gctttcctcc 300
 ctgtcatcga gtcccttggg ttctccagcc aacttgaggc cgcaaccttc tgtcaggcgt 360
 tccccagtg tgt 373

<210> 12731
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-H1

<400> 12731

cggaattccc gggtcgacgc acgcgtccgc ccaggtgatg cagagattct gttttcagag 60
actactaaag cagagaggga gcttaagtgg gaagcaaaat acggtattga agagatgtgc 120
cgcgaccaat ggaactgggc cagcaagaac ccttatggct atggatcacc tgactctatc 180
aagcagaatg gtcaccaaac aaacggatcc gctgactcct ccaagcagaa tggccaccgc 240
acaaacggtt caactgactc acccaagcgg aacggccacc atgcgtatgg gtctgctgac 300
tcaccaagc gcaacgggca ctgcgttttt ggatcatcag acctcaagcc gaatggtaat 360
ggccacctgc gctgaacaga actgtttggc ctgtgagctc cctgtaca 408

<210> 12732

<211> 91

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-H4

<400> 12732

aaaaacgcaa ccggcccttt taaaggaccc aagcttacct acccgtgcat gcaacgtcat 60
aactttttta taggggcacc taaattcaat t 91

<210> 12733

<211> 267

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-A11

<400> 12733

atattattat tatttttttt ttttaaaaaa aaaactctta aaaacccttt attcatcaat 60
aattataata accctcccca atttttttaa aacatatttt ttttacaaaa aaattatcac 120
taattttttt tttatccatt ataaataatt ttacacctta ttttttaa ataaaaataat 180
catattaaat tttttttttt ccaaaaaaat aatattttac ctttaaattt ttttaaaaaa 240
aattttcatc ccaaaaaaat tttttttt 267

<210> 12734

<211> 397
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-014-Q1-K1-A2

 <400> 12734

 attccccggt gcgacgccac gcgtccgccc acgcgtccgc ggacgcgtgg gttatctacc 60
 acggcaccgn cagccccgggc ggctatgaag actatgccca tcgcgaaatc gacggcgatg 120
 aagaagacca gttccccctct cctgatcgtc ctgttctca cagcagcagc catggcggcc 180
 gagccggaga agcaggcggc ccccgcgcca caggagacgg ccgtgcacat cgtgtacgtt 240
 gaccgccccg aggacgccga ccctgaggag ttccacatcc gcaccctcac ccccgtcctc 300

ggcagcgaac agaaggccat ggacgcagtg ctctaccact acaagaacgc cgtcagcggc 360
 ttcttcgcca agctcaccct ccagcatgtc aaggatc 397

<210> 12735
 <211> 276
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-014-Q1-K1-B10

 <400> 12735

attccccggt cgacgccacg cgtcgcccc cgcgtccgcc cacgcttccg acaatcttta 60
 caaagcctaa caggtagatt gttttgtttt tttaatcttg tgtgaattca taaacgtgcc 120
 tgaagctttc acatatacat cacttgcttt tatcatttca ataatttcag cttttctgtc 180
 agatgaaaaa aactacaaag tgctttcagt atttattgca actatgtagt aattgaaaga 240
 atggaacac catcattatc tataaaggaa acattt 276

<210> 12736
 <211> 206
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-014-Q1-K1-C10

 <400> 12736

tccctggtct acccactcgt cctcggactt cgtgggctga ctcttgagat ctcgagcgt 60

cacccattca tacatacaac aagatatattt taaaattata tgacctatat tacatccact 120
 ttcttaaatt atacaacata ttaactaata aaaccctaata catacataac ttaatatcat 180
 atcaaaacat cctcatatat ctatca 206

<210> 12737
 <211> 223
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-014-Q1-K1-C11
 <400> 12737

ggaattaccg gctggaccca ctcatccgcc cactcgtccg cccacgcgtc cgcccttacg 60

tccatccaca cgtccctgaa cagtagaaaa tttatacaag cattgatgca tcaaaaaaaaa 120
 aaaaaaagct ctctcgtctt atagcatcca aactaacata cccgtgcata ctacgtcata 180
 tctcttctat agagtcacct aaatacaatt cacttatccc tca 223

<210> 12738
 <211> 405
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-014-Q1-K1-D10
 <400> 12738

aattcccggc tgcacgccac gcgtccgcta gcaacataga aagcacaata gtgtaccaac 60
 aatggcagcc aaaatatattt gcctacgtag gtccttggt ctttctgcaa gtgctgctac 120
 ggcgaccatt ttcccgcaat gtcacaagc tcctatagct tcccttcttc ccccgctacct 180
 ctcaccagtg ttgtcttcag tatgtgaaaa cccaattctt caaccctaca ggatccaaca 240
 tgcaattgca tcaggcatct tacctttatc acccttggtc cttcaacaat catcaaccct 300
 attacagcaa ttacctttgg tgcaattaat ggcaccaaac ctttaaggcac caccaccttt 360
 tccaacaaac cttgcttgcc aactttatca acaacagtta ccttt 405

<210> 12739
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-D2

<400> 12739

ggttcggaat tcccgggtgc gagccacgcg tccgcagcat caggaagcgt atccatgtcc 60
gcgtggagca tgtgcagccg tcccgtgca cagaagagtt ccgcctgagg aaggtgaaga 120
atgaccagct gaaggcggat gcaaaggagc gcggcgaggt catcagcacc aagaggcagc 180
cgttgggccc caagcctggc ttcattggtt aggggactac catcgagacc gtcactccca 240
ttccgtacga tgttgtcaat gatcttaagg gcggatacta ggttggtgtt tgggtcttct 300
acctgttcta catctgtgtt actctagtgc gtacaatgtt gtcacactg agcagtagta 360
tgaacctatt gtgtgttcat gttgaaat tcccgttct gtgcaa 406

<210> 12740

<211> 274

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-D4

<400> 12740

catccttgag ggtaaagagc tcgagttcta catgaagaag ctccagagga agaaggggaa 60
gggtgttgca tcttagagca ttcttttagc tagaactgca aaatatcttc tacttggggg 120
atattgttgt tagtctttat gcataatcatt tgcggacctg atgaacactt cataagttaa 180
tcaactctcg attctaagaa ttgataat tccatgcgg tgggttgtaatt tgtgatattt 240
aggtttgcta tttattgaaa cttcttctct aaaa 274

<210> 12741

<211> 449

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-014-Q1-K1-D7

<400> 12741

accggttcgg aattcccggc tggaccacgc cgtccgaacc caccagccac cacgcacagc 60
agcagctagc tagctagcaa ccacctcgat cgacagaggc cggaagctca gccgcgaatt 120

cggcaagcaa caaggagaag tcttgggttc ctgccacct ctcgatcggc caggcggatc 180
 caagaagaga tggagaagaa ggcaggacgc gagcatgtga tcgggatccc agtgaacaac 240
 agggccttcg gcatcgagga gccggatttc tccagcaaag gcgccgccag gaacgcagcc 300
 gccgcgggac gggctgcaaa gtccggctgg acgaccgggg acagggtcgc tcaaggcctg 360
 aaagaacacg tggctctggg gccaaacctg tacgagaccg tgagggggcaa gctgtcgctg 420
 gnggcgagga tcctncgggc aggcggcgt 449

<210> 12742
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-E5

<400> 12742
 tgcattctct ctacacaagc gactgacaaa gcaattacca aagtcaacaa cagaacgtca 60
 atggccacca agatattttc cctccttatg ctcccttgctc tttctgcatg tggtgctaac 120
 gcgacaattt tccctcaatg ctcaacaagct cctatagctt cccttcttcc cccatacctt 180
 ccatcaatga tagcttcagt atgtgaaaac ccagctcttc agccctatag gctccaacaa 240
 gcaatcgag caagcaacat acctttatca cccttgttgt ttcaacaatc gccagcccta 300
 tctttggtgc agtcattggg acaaaccatc agggcacagc agctgcagca actcgtgcta 360
 cctgtgatca accaagtagc tctggcaaac ctttctccct actctcagca acaacaattt 420

<210> 12743
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-E7

<400> 12743
 ctctaggtgc ccaggtcttc gccggtccgg tggccgcctc ttcgccgccg atgagcacca 60
 gccaggaaga aaagaagctg aaccatgggg aagagaaagt cagctgctaa gccacctcct 120
 aagaagcgga tggacaagct tgacactgtc ttttctgcc cattctgcaa ccacgggagt 180
 agtgttgagt gccgaattga catgaagaat ctgattggcg aagcatcttg tagaatctgt 240

caggaaaact tcagcacaac tgттаатgca ctcactgagc ctattgatat atatagtgaa 300
 tggattgacg agtgtgagcg tgtcaacact gttgaaggcg acgatgatgc gtgagcttgc 360
 cccatgcgat gaaactgtta cctaccatcg t 391

<210> 12744
 <211> 291
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-F11

<400> 12744

ttccccgggtc gacccactcg tccgtacctt catagataat aaatcaattc acgttttaaat 60
 gaagctcatt-attctcacea- atgatcattc- ttacaatccc atgtatcact cctacaacct 120
 acatctttca tacactctac ttcataatgc tccctgctcc agtataactt atatacatcc 180
 aaacccctca caatacactt cctaatactt acgcatttct taaccattat ataactcatc 240
 tctttaatta tattcacatt ccttataccc caatctacaa catcaacact t 291

<210> 12745
 <211> 446
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-F2

<400> 12745

ttccccgggtc gagccacgcg tccgtagcaa cataaaaagc acaataatgg tccaacaatg 60
 gtaggccaaa taattttgcc tccgtatgct ccttggtctt tctgcaagtg ctgctacgac 120
 gaccattttc ccgcaatgct cacaagctcc tatagcttct cttcttcccc catacctctc 180
 accagcgttg tcttcagtat gtgaaaaccc aattcttcaa ccttacagga tccaacaggc 240
 aatcacagca ggcattctac ctttatcacc cttgttcttc caacaatcat cagcctatta 300
 catcaattac ctttggtgca tttattggca caaacatca gggcacaaca actacaacaa 360
 ctcgtgctag caaaccttgc tgctacgct cagcaacagc agttaccttt ggtgcaattg 420
 ttggcacaaa acatcagggc acaaca 446

<210> 12746

<211> 179
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-014-Q1-K1-F9

 <400> 12746

 gtgaacatgg cggtcgttgg ctttactccc aaaatacgag cgacaaaaaa aaaagaagaa 60
 aataataaaa aaaataaaaa aaaaaaaaaa aaaacgacct cccactttat ataatccatc 120
 cttacattct catgcattcg acctcatatc tacaactata gtgacaccta aatccaatt 179

<210> 12747
 <211> 219
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-014-Q1-K1-G1

 <400> 12747

 attcccagct ggacgccact catccgcca cgcgtccgaa aaaaaaaaaa aatttattaa 60
 aaaaaaaaaa aaaaaaaaaa aaaaaagaaa attaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaggcc gcccgttcta aagaatccaa gcttacttac ctttccatcc 180
 aacttcatac ctcttctata gtgccaccta aattcaatt 219

<210> 12748
 <211> 365
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-014-Q1-K1-G2

 <400> 12748

 tacagggtga acggagtcgt tacagcagca ggtaacatga caacgaatgt agtagtagca 60
 gcagtagcaa tctcattttt acagtggcta aaccaatcaa tcaaccgaac ggacgaaggg 120
 gactaggggg aggaaggaat tgtagcagcg atctcgctca ccattctcac cgggacgccc 180
 gcggaatcct caaatccacc cgaaccggtc accatttttt ttcttgagat actttggaca 240
 cttttccttt gaccactcaa tcagcgttcc ttccctgct cgggtccgac gaccgatgtg 300
 gcggtcaggc gcggccgggt ccgtcgtggg gcggcagcgg cggcggggccg aagagcggcg 360

gcgcg

365

<210> 12749

<211> 78

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-G3

<400> 12749

tcccggtctcg acccactcgt ccggtcaaac aaaacatatc atacaaatcc acttttggtt 60

ttgttaattc caaatacc 78

<210> 12750

<211> 221

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-H10

<400> 12750

ggattcccggt gtgcgcccac gcgtccggcg gcggcgggcg ccgcctcggc attgcctcgg 60

ggcggcgggcg gcggcctgat cagattgcat ctacgtcatc cgggacgtca acggggaact 120

gttctcgggc ggtgtcggcg gcggctgctt gccgacggcg tcgaatgccg cgatcgccgc 180

tctgtaagag gtgaaggcct gtgagtgggt cggtcgctct t 221

<210> 12751

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-H12

<400> 12751

cggctggacc cacgcgtccg cccacgcgtc cgcacacgcg tccggcacgg atcttgacca 60

aaagcttcac ttctgatttc cctcatgttg agaggtatct ctggaccatg gttaaccaac 120

ctaatttcaa gaaggtcatt ggtgagggtca agcaggcaga gtctgtacct cctgttctta 180

aaaagggtgt tcctcctaag gagtcaaagg caaaggatgt gaagaaagaa actccaaagg 240

aggcccccaa gccaaagggt gttgaggtac cagcagaaga ggaagcacca aagccaaagg 300

caaagaatcc tcttgacttg ctgccaccaa gcaagatggt ccttgatgac tggaagaggg 360
 tataactcaaa cacaaagacc aacttccggg aggttgccat caaaggtttc tgggacatgt 420
 a 421

<210> 12752
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-H3

<400> 12752

ggtttcggaa ttcccgggtg gacgtcacgc gtccgctgcg gggttcgggt tcgtgggtga 60
 gcggatcgag_atggcggcgt cggatgttga gtagctgtgc ttcgtcggcg gcctcgctg 120
 ggccacggac gaccactccc tccacaacgc cttcagcacc tacggcgagg tctcagagtc 180
 caagatcatc ctcgatcggg agacgcagag gtcccgcggc ttcggcttcg tcaccttctc 240
 cacggaggag gcgatgcgga acgccatcga gggcatgaac ggcaaggagc tggacggccg 300
 caacatcacc gtcaacgagg cccagtcccg cggcgccgt ggaggcggcg gcggtgggta 360
 cggtggtggc cgtggaggcg gcggttacgg cggtggcggg cgccgtgatg gcggtggcg 420
 ctacggcggt ggcggc 436

<210> 12753
 <211> 546
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-015-Q1-K1-A5

<400> , 12753

ggattcggaa ttctccgagg tcgaccctac gcgtcgcgaa cagctaacag acttgctttc 60
 attctatgcc ctgctcgctt tatgggncta atgcactcta cgtgagccgt gcatacaaca 120
 gtatgtgtgc aaccaaccag ttgcatgcna taaaagtgtg taccagcttc ttaactcagc 180
 gtagcttgtg gcagaacgcc ttgctgcgct aacttgacaa caacttgact tccatttcaa 240
 cgcaacatga cctgtgtacg aacttctgac tgcgtaact tacaacagcg acatacagct 300
 tacttaatcc acttagcggg ggcataaacc cattnnggtc gctgacctgt cctatcagca 360

gcaacatatt gctcgccata cnatccagta tctcttttga tgatacacct gccttgctgt 420
 tggcagcaac cccatcgctt ggtggtgcc aatcttttaga ttacatatga ngatgtactc 480
 gataatggtg cccatcatagc ggcattgtgtt tcctaaaaat aatcaatata ttgattgaga 540
 tttatc 546

<210> 12754
 <211> 440
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-015-Q1-K1-A7
 <400> 12754

caagcttga ggcattgaca agcgtgtgat cgagagggtc gagaaggagg ctggtgagat 60
 gaacaagcgg tccttcaagt acgcgtgggt gctcgacaag ctcaaggctg agcgtgagag 120
 aggtatcacc attgatatcg ctctgtggaa gtttgagacc accaagtact actgcacggt 180
 cattgatgcc cctggacacc gtgacttcat caagaacatg atcactggta cctcccaggc 240
 tgactgtgct gtccttatca ttgactccac cactggtggt tttgaggctg gtatctccaa 300
 ggatggccag acccgtgaac atgctctcct tgcgttcacc cttggagtga agcagatgat 360
 ttgctgctgc aacaagatgg atgcaaccac tcccaaatac tccaaggcac gttatgaaga 420
 gattgtgaag gaagtctcat 440

<210> 12755
 <211> 248
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-015-Q1-K1-A8
 <400> 12755

cccacgcgtc cgagcgagtc tggtattagt actggatcgg ttgtcaatct ccaggatgtg 60
 gtcttcaagt ttttgctctg tgcccagacg ttaaggctcat gaactacctt agctaaggct 120
 ttccgcatgt tggtctattg ctgctatgta tctcacgttg gttattgctg aacttatagc 180
 ttgtttggtt cggattatga taaaccaa atggatatttga attatattat gggaaaaaca 240
 aactgtac 248

<210> 12756
 <211> 73
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-015-Q1-K1-B2

 <400> 12756

 cccacgcgtc cgccacgcg tccgcggacc gtgggaaaaa aaaaaaaaaa aaaaaaggaa 60
 agaaaaataa aat 73

<210> 12757
 <211> 271
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-015-Q1-K1-B8

 <400> 12757

 cggacgcgtg ggctgacct cacattgcac cggaactgtt cggcgagaat aaagttgggt 60
 gttagacctt gaacgtcttt tgcaatatgc ttttttgtct gccctgatta tattctaccc 120
 cttcatataa cgcttgatgt gccgtcaaga aatggcgaaa cattggcatg actgtaaaca 180
 agaaactaaa tacgggtata aaaatcgtgt catgtcatgt ccaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaaaata aaaaaaaaaat a 271

<210> 12758
 <211> 451
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-015-Q1-K1-C1

 <400> 12758

 gacccacgcg ttccggcacac gttcggccac accttcgctt tatggagcaa gggaatcaca 60
 ttggcattgc aggcgagaag tttgcattgg ttgggcttct aactttttgt gcaaacggca 120
 attatggtaa ccatattcca agggacctgg taacaattct ggtggcaatg gggtacaatg 180
 aacccttgggt tccatacttg attaaaccac aaggggggtg caacctggta acgtgggcga 240
 cccttaatct gcaacaactt gtggccttac cgcttcagcc gtgccaaatg ccaatgatga 300

tgccagggtat gatgccaccg atgacaatga tgccgatgcc gaatatgatg ccatcgatga 360
tgggtgccgac tatgatgtca ccaataacga tagctagtat gatgccaccg atgatgatgc 420
caaacatggg ttcaccaatg atgatgccga g 451

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-015-Q1-K1-D10

 <400> 12761

 tgttccaag cctcaacaaa gtcgtatttc ttgatgatga tggtgtgtgc cagcatgacg 60
 ctagcaccac tttgggatat tgatctatct gggaagggtta atggcgctgt tgagacttgc 120
 agaggaggag atagttgggt gatgtctaag aggttcagga attatttaaa cttttctcat 180
 ccctcattg caaaaaactt tgatccttca gagtgtgctt gggcatatgg tatgaatatt 240
 tttgacctga atgcatggag gaagacaaca atcaaagaca aataccatca ttgggtcaag 300
 gagaacctga agtcaaactt cacactttgg aggctgggaa cattaccacc aggcttata 360

 gcatttaaag gccatgttca cccaattgat ccatcatggc atctgttagg tttgggggat 420
 caggaaaaga cagatattcag tagtg 445

<210> 12762
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-015-Q1-K1-D11

 <400> 12762

 tgctgcctac tctcagcaac agcagtttct tccattcaac caactggctg cattgaggtc 60
 tgctgcttat ttgcaacaac aactaccatt cagtcagcta gctgctgcct acccccagca 120
 atttcttcca ttcaaccaac tggcagcatt gaactctgct gcttatttac aacagcaaca 180
 actaccacca ttcagccagc tagctgatgt gagccctatt gccttcttga cacagcaaca 240
 gttgttgccg ttctacctgc acgctgcgcc taacgctggc accctcttac aactgcaaca 300
 attgctgcca ttcaaccaac ttgctttgac aaaccaaca gcgttctacc aacaacccat 360
 cattggtggt gccctctttt agattgctta tgagttatag ttcaataatg aagttttttg 420
 gatgatgttt 430

<210> 12763
 <211> 327
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-015-Q1-K1-D12

<400> 12763

aaaatctgga aatgtaactt cttatttctg gttggccaca tacatcatgc aagaaacttt 60
 attattgaat tacaactaat aagcaatcta aaagagggca ccaccaatga tgtgttggtg 120
 gtaggaggcc gctgggtctg tcaaagcaag ttggacaaag ggcaacaatt gttgtagttg 180
 taagagggtt gcgggggttag ccgcaaactg ctggtagaaa ggcagcaact gttgctgtgt 240
 caagaaggaa gcacggtttg ctgcagctag ctggctaaat ggtagtagta tttgctgctg 300
 caaataagca gcgngttca gtgcgac 327

<210> 12764
 <211> 442
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-015-Q1-K1-D3

<400> 12764

ggtcagggaat tcccgggtcg acccaagcct tccggcctac ctccaggagg gccattgggtg 60
 aggtcaacca ggcaaagtct gcacctccta tgccgaaaaa ggttgctcct tctaaggagc 120
 caaaggcaaa ggatgtcaag aaggaggctc caaaggaggc caccaagcca aagggtggtg 180
 aggcaccagc agaagaggaa gcaccaaagc caaagccaaa gaatcctctt gacttgctgc 240
 caccaagcaa gatggtcctt gatgactgga agaggctata ctcaaacaca aagaccaact 300
 tccgggaggt tgccatcaaa ggtttctggg acatgtacga cccagagggc tactctttgt 360
 ggttctgtga ctacaagtac aatgatgaga acaccgtctn ctttgtgacc ctgaacaagg 420
 ttggtggatt cctgcagcgg at 442

<210> 12765
 <211> 475
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-D7

<400> 12765

taccggtccg gattccccggg tcgactcacg cgtccgcgga cgcgtgggcg acatgcgggc 60
gtcgggccc acctggtaca cggcggtacc gacgatccac cagatcatcc tggaccggca 120
cgcgtcgcg cgggaggcgt acccggcgct ccgattcatc cgcagctgca gcgcgtcgt 180
ggcgccggcg atcctggagc ggctggaggc ggcgttcagc gcgccggtgc tggaggcgta 240
cgcgatgacg gaggcgtcgc acctgatgac gtcaaaccgc ctgccggagg acgggccacg 300
gaagccccggg tcggtggggc gcgcggtggg gcaggagctg gcggtgctgg acgaggagg 360
gcggctcgtg gcggcgggga gccccgggga ggtgtgcgtc cgcggggaca acgtgacggc 420
gggttacaag gggaaccacg aggcgaacga ggcggcgttc cggttcgggt ggttc 475

<210> 12766
<211> 472
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3059-015-Q1-K1-E1
<400> 12766

gaattcccgg gtcgacccaa gccttccggg gccttagtta acttgaagcc gttgttatg 60
aaccacagac tcgtaaagct tcctcggggg aaacctgcag catgagcacc aatttgagag 120
ccctcaagat accaaggaga aactggaagt taggagaaaa gaagtccttg gccgaataaa 180
atgtgtgcct acactttact ttttgggtctc tacagctttg caggagtatt tagtattttg 240
atgtgacagc aacacataat gacataacta ctatgagcat tgctaattaa tttacaccgg 300
taccttcgtt tgagaaatth tcttccattt ccagcatctg ctggcagacc tgaagggtca 360
tctccagctc agggatcatc tagtgngaac caccaccaa atgaactcta ttaggaggga 420
ttatatgaag acaattcatg cttctnctat tgaagatcct cgtttcagtc at 472

<210> 12767
<211> 402
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-015-Q1-K1-E2
<400> 12767

cggggaaccc catggacttt taactgtcaa gccattcgg tggaggcccc gcaggaaggg 60
tgaagagaaa gaatcagaag aaggcaagcg gtggcggcga tgctggcgat gaggatgagg 120
agtgaggatg gacaagtagc gttaccaat ataataatat tatctagttt tcttgaactt 180
gttcgaatga tgagtgttta gctgtgtgat ctgacgcaga gttccctgtg ctgactctgt 240
gtcatggatg gtccatttta tcttgtggta ttatcagcct ttacataact gctatgtttg 300
gatatgttca attctgttgc aattttatgt ggttgttttt tgcgttttgt tgctattaag 360
ctgttctttc aatcggctaa tggtttgctt aaatgttatt ta 402

<210> 12768
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-E3

<400> 12768

ggaattccc gtcgacccaa gccttcgca aggacccttt cttggaactc gcccttttgc 60
tttaaccaca ttgccctcgt cggcggggcc gaccagctgc cgccgcgtcc agcaaaacaa 120
ccggccgtag gtccaaaata gttcccatg gcgtccatat cgtcgcttcc ctttgcgccg 180
ctgcgcggag ccgccgagtg gaggccgtcg tcgacggcgc cggccgtctc cggcgcgtc 240
gtgctcagcg cgaggtctcg gcggggctcg ggctcgggct cgggctcggg ggtgcgctgc 300
gtcgccacgg cgagtgatgt cccacctact gttggagaaa caaagttgaa cttccttaag 360
tcatacaaac gcccaatccc aagcatttac agtacggtct tacaagaact tctggtacag 420
caacacctga tgagatacaa aagaacctat cagtatgatg ct 462

<210> 12769
<211> 232
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-F1

<400> 12769

cggaattccc gggctgaccc acgccttcgg tggcgccaaa tctgggtgta tttggtatta 60
ttaaccagaa aaccattggg ggattagcga gggatcaag aaaaggcctg aatcttctgg 120

cactaatcct gcattgcatt caaaccattt atatcttgca acaacctcta ccgattgtaa 180
attccaaatg gtctctacct ttattaaagg tgtaaaccce aagggatcac ca 232

<210> 12770
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-F3

<400> 12770

ccggaattcc cgggtcgacc cagcctccg gggtagatgt gacaagcaag gcttcccaat 60
gaagcagga gttttgactt ctggtcgggt tcgtcttctg ctccataggg gcactccctg 120
cttccgtggt tatggcaggc gtaatgggtga gcgcaggagg aagtctgtcc gtggttgcac 180

cgtgagccaa gacctatctg ttatcaactt ggtgattgtg aagaaggggtg agaattgatct 240
gcctggctctg actgacctg agaagccaag gatgaggggt cccaagaggg cctccaagat 300
cagaaagctg ttcaacctta acaaggatga tgatgtacgc aagtacgtga acacataccg 360
tacgacattc actaccaaga acggcatgaa ggtcagcaag gcacctaaaga tccaacggct 420
tgtgacaccc ttgacccttc agaggaagcg tgctataatc gc 462

<210> 12771
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-G1

<400> 12771

ccgggtcgac ccacgcgttc gccacacct tccaaagaaa aaagtgttat ggaattaggt 60
agaaataccg gggttccacc gaggaattac cttttgggcc aaccttgtag cttaaagaaa 120
ccttccactg ggaaaaagga ccatgctctt atttctggaa tggaaaatgc caatgaaact 180
ggtactagaa accgatcatt tgccccgaaa ccatcttatt tttatcaagg tgaagaccct 240
tggaacctgtt aacttttccg gatacttgaa acccttaatg gttaaaccctc aaatttaacc 300
gtccacattt tgaccagtta aacacccagg cttttcaacc agaggagccg acctcctggg 360
tttctcagca ggaggagcag ttaaattgtt ctaaaggcca gagatcaaag aggaagaggc 420

cttcgatgga gaaggcagat ggtttggacg gtataac

457

<210> 12772

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-G2

<400> 12772

ttcggtcatt caacttccac caatctgtct cccaatcttt cttgctgctc caattcggtc 60

tgtttactcg gccagcggaa ggggagagga gggcgagatg acggtggaga aggtggacgc 120

ggggctttcc gacttcgacg cccacttcga tcgcctcttc gcttccccgg acgcgcctc 180

cgacggcaag gtgaagctgc tgctcttctt ggccgaccgc aagcctggct cctccctctc 240

ctggtgcccc gactgcaacg tggcggagcc ggtgatctac gagcggctgg aggcactgga 300

gggcaaggac gcggtgctcc tgcgcgccta cgtcggggac aagcccactt ggcgcgaccc 360

ggcgcacccg tggaggggtg accccaggtt cgggctcaag ggcgtgccaa cgctgatccg 420

ctgggaggat 430

<210> 12773

<211> 172

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-G5

<400> 12773

cggccccgaa ttccccgggtc gacccaagcc ttcggccaag ccttcggaat gatgtgttgg 60

tgggtgtgcc cttttttaaa atgcttaata gggggaattc aataattaag gtttttggat 120

gatgtatgtg gcccacccga aattagaagt tacattttca gattttaatg gg 172

<210> 12774

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-H11

<400> 12774

tcccgactcg acgcaacggt ccgcccactc gtccgcccac gcatacgcgc ttctttcagt 60
 gcccgtagcg actactgtcg agtgggatcc accgcccttg tgaagcacct cgtacacggc 120
 tactgcctac tgacccgttc atcttgatta ggcaatatgg ttatcccttc accagctatg 180
 gtcctgcaa tcaccaagtt cctcaatccg tatattttga atatgcattt cacaaacaat 240
 ttcatgagcg ctcatgtcat ccacacacct acagccactg tcgcatgctc ttcaagctct 300
 catgataaac tccttatgcc aagcatggag tctactctta tttttcttct tc 352

<210> 12775
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-H6

<400> 12775
 aattcccggg tcgacccaag cgtgcgggctt cccgcagatc catttcattc gcctgcgcgc 60
 gtagcaagca ctagcagcgg tgatgccgac tggacacggg ctgcgctcgc ggacgctcga 120
 cctgttcgcg cgcgcccttat gcaagaaggg ctacatcccg ctcaccacct acctccggac 180
 ctacaagatc ggcgactacg tcaacgtcaa ggtgaacggg gccgtccaca atgggatgcc 240
 gcacaagtgc taccacgggc gcaccggtcg cgtctggaac gtcaccaagc gtcctcatcg 300
 cgtcgagata aacaagcagg tgaatggtcg catcattagg aagcgtatcc atgttcacct 360
 ggagcatg 368

<210> 12776
 <211> 218
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-B1

<400> 12776
 cccgggtcga cccacgcgta cgcaactact accattcagc cagctagctg gtgtgagccc 60
 tgctaccttc ttgacacaag cacggttggt gccgttctac cagcacgctt cgcctaacgc 120
 tggcaccctc ttacaactgc aacaattgct gccattcaac caacttgctt tgacaaaccc 180
 agcagcattc taccaacaac ccatcattgg tggtgccc 218

<210> 12777
 <211> 359
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-B3

<400> 12777

gtccggattc ccgggtcgac ccagcgcccg ggaccgtggc gaccgtggcg acctgggtca 60
 gaacacacct acggggccact acacgactac acaaggctac caaatttata cttttgcgct 120
 cttgcccttt tggagcgcac aagcgctcatt attccccaat gctcacttgc tctaggccat 180
 tattcacagt ctccctcagt cttcaaggct tcgaacaccc actggcaagc ctacaggcta 240
 caacagcgct tgcgggeageg tttacaacaa ccaattgccg attcacaaca atctggacat 300
 ctaaccatac aaaccatcga cgcacagcac acaatttcta ccagcctaac caactagct 359

<210> 12778
 <211> 455
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-B4

<400> 12778

attcccggtc gaccccgcggt ccgcgggcgcg tggggcgagc cgtgggggttc tagatcgagc 60
 ggccgggatct gcctcggtccg ctccggtcgtc tactggggcg cgcagctgct cggcgccgctc 120
 gccgccgcgc tcgtgctcag gctcgccacc ggagggatgc atctgccgga gtacgcgctg 180
 gcggtggggc tgagcgggatg gaacgcggcg gtgctggagg cggccatggc gttcggggctc 240
 atgtacgcct actttgcgac ggtgatggac aaagcgcgga gggtcgcgc cggcgccgga 300
 gcgctggcgg cgcgcgtcgc cgtgaggctt ctggcggggg ccaacgtgct ggctgcggc 360
 gcgctggagg gcgcgctgat gaatccggcg cgcgcgttcg ggcccgccgt cgtgggctcc 420
 cgtcgtgga acaccaatgg gtgtactggg tgggg 455

<210> 12779
 <211> 365
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-016-Q1-K1-B6

<400> 12779

tagcaacata gaaagcacia tagtgtacca acaatggcag ctaaaatatt ttggctcggg 60
 atgtctccttg gtctttctgc aagtgtgtgt acggcgacca ttttcccaca atgtccacaa 120
 gtccttatag ctccctttct tccccgtac ctctcaccaa cgggtgtcttc ggtatgtgaa 180
 aaccaattc ttcaacccta caggatccaa caggcaatcg cagctggcat cttaccttta 240
 tcaccttgt tccttcaaca atcatcagcc ctattacagc aattaccttn ggtgcattta 300
 tgggcacaaa acatcatggc acaacatcta caacaacttg tgctatgcaa ccttgctgcc 360
 tactc 365

<210> 12780
 <211> 68
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-C3

<400> 12780

ggattccccg ctcgaccccc cgtctccac ctccctcgcg cgcctctccc gactcgccac 60
 catttccg 68

<210> 12781
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-D12

<400> 12781

cggattcccc gtcgaccacg cgtccgttct gcctttggaa taatctgtat gggatttta 60
 ttgtcatcg tattaggtgg tttctgtgtg gtccattgtg tatgggcggc agctgaagcg 120
 tactccgcgc cttcaattgt gttgacatct cgttcacgag atgggttgca tgtttttgat 180
 gatttccgtg aagcttaacg atggctgagc cataacacag atgttgatga caaggttgct 240
 tcctgggtggg actatggtta ccaaacaact gcaatggcca acagaactgt gattgtagac 300
 aataacacct ggaacaacac tcatatagca acagttggta cagcaatgtc gtccccagaa 360

aaagcagctt gggaaatctt caattcttta gatgtcaa atgtgctt

408

<210> 12782

<211> 453

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-016-Q1-K1-D9

<400> 12782

ggattccccg tgcaccacgc gtcggccacg cctcccaact gggggcccaa gttctggtaa 60

ctgatccaag ggaacttgag aggatgcggt cagagagaat ctgacataac aaaggagcga 120

attgagaaaa ttctcaaggc tggagcta atgtgtgtga ccaccaaggg aattgacgat 180

atgtccttga agtactttgt tgaggttggt gcgattgcag taaggcgtgt gcgcaaggaa 240

gatttgcgac atgttgccaa agccactggt gcaactatgg tgtctacttt tgcggacatg 300

gaagggtgaag aaacattcga ttcattcatt cttgggtcatg ctgatgaagt tgttgaggaa 360

agaattgctg acgatgatgt tattctggtg aaaggcacia agaacaccag cgcggtctct 420

ataatacttn tnngcgcaaa tgactacatg ctt 453

<210> 12783

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-E12

<400> 12783

tcttctattg gtaactccat ccaagtggct aaccaactcc aactacactg agctgggcca 60

gctctatgag aagtacaagg accaaggctt tgaaatcctg gctttcccat gcaaccagtt 120

tggtgggcag gagcctggta ccaatgagga gattgtccag tttgcctgca cacgcttcaa 180

ggctgagtag cccatcttcg acaagggtga tgtcaacggt agcaatgctg cgcccatcta 240

caagttcttg aaatctagca aagggtggct tttcggcgac agcatcaagt ggaacttttc 300

caagttcttg gttgacaagg agggacgtgt tgtggatcgc tatgctccaa ccacttcacc 360

cctgagcatt gagaaggata tcaaga 386

<210> 12784
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-016-Q1-K1-F2

 <400> 12784

 ttgagcattc agaaacacac caagctatac gcactaccaa cgacctaaca acaatgggta 60
 ccaagatatt agccctcctt gcgcttcttg ccctttttgt gagcgcaaca aatgcgttca 120
 ttattccaca atgctcactt gctcctagtgc ccattattcc acagttcctc ccaccagtta 180
 cttcaatggg cttcgaacac ctagctgtgc aagccaacat gcaacaacaa gcgcttgagg 240
 cgagcgtctt acaacaacea attgcccaat tgcaacaaca atccttgcca catctaacaa 300
 tacaagccat cacaacgcac cagcaacaac agttcctacc agcactgagc cacctagcca 360
 tgggtgaacc tgccgggtac ttgcaagagc agctgcttgc atccaacca cttgctctgg 420
 cg 422

<210> 12785
 <211> 212
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-016-Q1-K1-F3

 <400> 12785

 tcggattccc ggctggaccc acgcgttcgg cgttcgcggc tgtggcggtc gtggcgctgg 60
 acagggcgcg gatcagccgc gcgcagacgg ggagcggatc aagacgtggc atgactgtgc 120
 cggatacgtc cgcggcgtgc gcttcgccga cgtggccgtg gacggcgtcg accaccccat 180
 cgtcacgcac cagttctact gcgacgtgac cc 212

<210> 12786
 <211> 312
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-016-Q1-K1-F4

 <400> 12786

tccccggctcg acccacgcgt acgggagata gggatgggtct ccggcatcct tgattgcacc 60
 tccgccgtaa ggttgtaagg tatggcacca ctaggactgc atctcagcat ggttcaagca 120
 aagatgtgag gtggaaaatt aactttttgt caacccaaaa gtgggagaac ccgttgatgg 180
 gatggacatc tactggggat ccatatgcta atgtcgggtg agcaagactt acattcaaca 240
 gtgcgtattc agctaaagca tttgcagaaa aacatggatg gaatgatgtg gtacggaaac 300
 ggcatacacc tt 312

<210> 12787
 <211> 207
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-016-Q1-K1-F5

<400> 12787
 ccggggcgnc ccacgcgtcc gggggccccn gnnngtncgc ttgtgtntgt ttccgccgtg 60
 tgccctcgten gtcggggccgg ggggccccg ttctcgggtg ctgccctgcg tggccccgtgc 120
 gctgtgectg ctctgcgggc tctggncggt ggccctcgcg gcctggccct gggctggngg 180
 tggctgtggt gctctgggcc cggggcc 207

<210> 12788
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-F8

<400> 12788
 cgaattcccg gctcgaccca cgcgtgcgcc cagcgtccg cacaatgctc actttttccg 60
 agtgccatta ttccacaggt gctccgtgca gttacttcaa tgggcttcga acaccagct 120
 gtgcaagcct ataggctaca acaagcgctt gcggcgagcg tcttagaaca accaattgcc 180
 caattacaac aacaatcctt ggcacatcta accatacaaa ccatcgcaac gcatcaacaa 240
 caagcactga gccacctagc cgtggtgaac cctatcgctt acttgcaaca acagctgctt 300
 gcatccaacc cacttgcttt aacatacgtg gctgcatacc aacaacaaca acagatgcaa 360
 cagttttctac caacgc 376

<210> 12789
 <211> 386
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-G2

<400> 12789

cggattcccc gtcgacccag cgtccggctg cgcgctcgt cgtcgttttc gttcccatcg 60
 tcacaagtcc agtaccaaac gtgcgagcgc gacgtcgaca ggcacaacgt ctgcgccatg 120
 gaggtgaggg acagcgtcga acggctggac caggccgacg tctacagccc tggggctggg 180
 aggatcacac tgcctcacca gccacaagtt ccccgctctc aacctcgtac agatgatcgc 240
 ggtgcgagta gacctgtacc aggacgcat catgtcacg ttctggaact tcaacgcca 300
 cagcgccatg tacggcatca agggcagtgc aaggatcaa gtcgccagcg acaacggtac 360
 cacggtgttc gacgacgtgc tccgtg 386

<210> 12790
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-G4

<400> 12790

cccgggtcga cccacgcgtt cgcggacgcg tgggagacc accgtccgtc ccaacatgag 60
 cattgttggtg aaggcgtgg ctccgtcct tcaacaaaga cctgcaccag gcaccgcaga 120
 gccagccccg caacctgtga gctgaatcca gtcacgtgtg atgggacctc gcagcatcag 180
 gcatctccgc gatcattcaa tcagcaagtc attgagagta ttttgaatat ttgttctgta 240
 gcattctgtt cctggcttga tggtggcgt gcacaatgac aatggtatat gcagtaggtt 300
 tgattattct ttttctttta cttctctat accagtacca agttaccaac tgttccgaga 360
 ttttcagaat tcgctgcttg aagaatagat gcaggatgat ctgga 405

<210> 12791
 <211> 208
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-016-Q1-K1-G5

<400> 12791

tcccggctcn gccacgcgg ccgcggtctc gtccgggctc gtgcttctcc tctctccgg 60
cgtcgtcttc ctccgggggtg gcgctgttcg cgccccctgt gtecccgntg tcgcgctcct 120
ggctgcgctg ggcgggcgcg gcgcgcggtt gcggctgttc tgggcggggc tcgggggtccc 180
tgccggcgctc tccgcggcgc tggttggc 208

<210> 12792
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-H10

<400> 12792

taccggttcg gaattcgagc caccggtccg gctccatgta tggatgaatt gttggtatca 60
agttcctcaa catttttgtg tttaaatgct ctgtatggaa gaatgagccg acggatcttg 120
agatcgacga aatcactaaa ccacgcggag gaggaggacg attatatata tggacataaa 180
ttgggtctcc ttgctgcgta aatgcttcaa gaggctgctg atccaaaaga atgaagccat 240
ccatggtctg actgcaaata tcgacaacat gttttggaca agacatttag cgatataggt 300
cgtcattagt tttaacattt acaaaagaac aatatttgtt ttcaattgaa gtttaaaactt 360
gcagactgta tagttgtgat tacaacaagt attgcggatc ctgtcacttt aaaccattgt 420
ttagttgcct taatcaaa 438

<210> 12793
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-H12

<400> 12793

taccggtctc ggaattcgag gtacgcgtac gcgaacacga tgcccgaacca agcttttcaa 60
gcattcatag accactgcac cgtttcaagg acagttgatg cgaatgtgtc tgaggcggaa 120

ggtgtataca gcgcccttgga gaagcttggc atcgactggg aacaggttgg aaagcagctt 180
 gagctggaac gcgtggactc cttcaagaag agctttgaca gcctactcgt gagcctgcag 240
 gacaagggca acagtctcaa gatggcgagt gtgtaaagct gataagattg ggtacctgcc 300
 agtgaacgat ttactataat aaaatgctag cttgctggct cttctcttac tatttacgct 360
 gtacctttgc tctcaattat ctgaatcggc t 391

<210> 12794
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-016-Q1-K1-H6
 <400> 12794

cgggtcgacc cacgcgtacg cgcaacgcgc cgcccacgcg tccggcgccg acgcttccca 60
 attccttcca atcggcacgc tccggcgtcct cgtgtgcaat cccagctct cctcgccctt 120
 ccctcccaaa ctccagcggc cccccctgac caagctccgg ggacggatgg acggaggagc 180
 cggctttccg ggcacgcagc cgggtctccg ctcgccggag gacgtcttcc gggactaccg 240
 cgcgcgccag gccggcctga tcagggcgct caccaccgat gtggagaagt tctacgtgat 300
 gtgcgaccca gagaaggaga acttatgttt atatggactt cctaatagaga catgggaaat 360
 aaacttgctt gctgaagagg tccctcctga actgccagag ccagctcttg gaattaattt 420
 tgctcgtgat gggatggatg aaa 443

<210> 12795
 <211> 256
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-016-Q1-K1-H7
 <400> 12795

gttgctactc ggacgaggag ggaaagcgga ggtaaatctc tcttggtaga tcggacgggt 60
 gctttgattt ttcatacgaa tgtgcttggt ttatggata tagattattg ggtatttcta 120
 ctgtactgtt tctgcccctg ctttcatttg atgtcactag tggtagggag tgtggcataa 180
 tcatgtagat gtacctgcta tgcatacatc gtattaataa atggcaccat tgctctcata 240

tactaagaac aactgt

256

<210> 12796

<211> 55

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-H9

<400> 12796

caacaacaac tatgtgaaaa gatcaacatt caacatccct aaaattcatt attta

55

<210> 12797

<211> 220

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-A1

<400> 12797

tgttgccgtt ctacctgcac gctatgccta acgctggcac cctcttaciaa ctgcaacagt 60

tgctgccatt caaccaactt gctttgacaa actcaacagt gttctaccaa caacccatca 120

ttggtggtgc cctcttttag attgcttatg agttatagtt caataatgaa gttttttgga 180

tgatgtttgt ggcgtcccag aaataagaaa gtacatttct 220

<210> 12798

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-A10

<400> 12798

gctgcctacc cccagcaatt tcttccattc aaccaactga cagcattgaa ctctgctggt 60

tatttacagc agcaacaact actaccattc agccagctag ctggtgtgag ccttgctacc 120

ttcttgacac aaccacagtt gttgccgttc taccagcacg ctgcgcctaa cgctggcacc 180

ctcttacaac tgcaacaatt gctgccattc aaccaacttg ctttgacaaa cccagcagca 240

ttctaccaac aacccatcat tgggtggtgcc ctcttttaga tttcttatga gttatagttc 300

aataataaag ttttttgtct gatgtttgtg gttcccaga aataagaaag tacatttcta 360

aaaaaataa tattatztat tataataaaa aaagggcggc cgtttttagag gatcc 415

<210> 12799
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-A8

<400> 12799

taaaagctcg cagcagcagc tagcagctcg ttcttggtcg tcagctctag cctagcctgc 60

gctggctctt cttaattct gcagggagc tccagtttca gctagagtgc aggcggagaa 120

ccaatggggg cggcgccgtc gtccgacgac tcgtcacgcg ccggagacgg ccgggctgtg 180

gcgagcagcg ctgcctctgg cactggcact gtcagcaaca gcatccaggc ccagtctaag 240

ctggcgtcct ttgttttaat gttcctatta gatgtttttg tttgttctat ta 292

<210> 12800
<211> 246
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-B10

<400> 12800

atcttttttt ttttgtttgt tttttttttt ttttttattt tttttttatt ttttttataa 60

tttttttttt ttttttattt gggggccataa aatcaatcat taattaaaat aaaaaaatca 120

ttatacccat aaaaaaaatt aacatactat attccaaca aattttaact gacattatac 180

aataaacaaa ataaaaaaaa tcccccaat tatgaaatcc ccttaattaa ttgaatataa 240

accctt 246

<210> 12801
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-C4

<400> 12801

ggaattcccg ggtcgactca cgcgtccggg gcgatgaaat tgatcaaaaa agacgagatg 60

atagtggtag actgcagggg aaggtggatg agcgttatca tgccaaacaa aaggatgaca 120
 actggagaca tagagaaagg gacaatagac agaggcccaa gcatgaaaat gtgttaaccc 180
 ttccgaagga agaaggaaga ggaactggtc ggcgtagtcg gatgatggat gataagttgg 240
 tcagtgggtg taggaacaag ggtgaaccaa gatcttctgt attaagcaaa gacactcgag 300
 aacgtacaag gcaaaatgaa tcttcgagga gaggtcaggg tgtgcaagaa aacaacatgc 360
 ataataaagg gcgtactgat gtacattcac gtgatgacag tttaaacagt gagaggaact 420
 tcaggctagt ataacataac aataa 445

<210> 12802
 <211> 280
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-C5

<400> 12802

tttgctaagt gagtgccaat gtatgtttga aacccttatt tgttgtcggt ctttacagtc 60
 tgctctctca attctactac tgcaactatc aacctgtatt ccaccagcat tcctaaacaa 120
 catgcacaca tactggtaga caataaggca caacatgaag gaaccagggg gggggcgact 180
 atttcttcat gtcgtcaaga aaagacatgc atgcatttgg cgctccctg catcgttgta 240
 ccacaaacgc gcaggctccc tggatgcac accgaatttt 280

<210> 12803
 <211> 377
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-C6

<400> 12803

cccacgcgtc cgcccacgcg tccgaaagca gtaaagccat ctgggagcac aactgatcgt 60
 agtagggatt tgtcctcagt cagccaaaac caagatccta ttccagtagc ccagcagttt 120
 ctggaagggt ttgcttcccg aaataactaat ggtagcagaa gcaacaccct ctctctggt 180
 cctccatctt ctgtgccaca tgctactgaa gttcctccga gaagacaggg tgggtggacaa 240
 cctgatattg gcagcatgat atctggtatg ctcaacaacc cagttttcag caacatgttg 300

tcgaatgtgg caacacagcc agggggctct agtgctgatt tgaagagcgt gttggaagga 360
 ttacaaagcc ttgctat 377

<210> 12804
 <211> 117
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-D11

<400> 12804

tcccggtcga ctccacgcgt ccgcccacgc gtccgcggac tcgtgggtgt taaccatggc 60
 ggcgtcagca ggcggaggcg gggttctctc gcagtttgag atggagcatt acataca 117

<210> 12805
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-D4

<400> 12805

tccctggtcg acccaactcgt ccgcccactc gtccgcccac tcgtccgccc acgcgtccga 60
 aaaaaaaaaa aaaaaaaaaa agaaaagttt aaaaaattag gtaaaaaaaa aaaaaaaaaa 120
 aaaaagggtta tctatttttaa attttccatg tttacttacc cttccttctt atttaataac 180
 ttttttattt cttcccctaa tttaaatcta ttgcccttat ttaaacadct cctatacttt 240
 taaaactttt cttttaccaa ttttattttc cttgaaaaat ttttcttttt ctcaagtttt 300
 ctattttttt tatttctctc ttttttatgg gtgttttcaa tatttttact tctttatttt 360
 attatttttt tctctttttt attttctttt tatttccctt ttttttctt ttttttctc 420
 atttttactt ttttttttct ttat 444

<210> 12806
 <211> 327
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-E12

<400> 12806

gattccccgt cgacccactc gtccgcgttc tcgtcatgta cctacctctt ttttacaaca 60
 actcctccaa catacagaag cagctttaat tcaactatct gtaaccaacc cttttaccta 120
 cttacaacaa tatattccat tcaaccaact ttctacacta aacccttcta cttattttca 180
 acaacaacaa ctactaccat tcaaccatct atctatcttc tactctcatc atcaacaatt 240
 tcttacattt aaccaattta ccttacttaa cccctttgct tattttcatc atcaaatact 300
 actaccaatt ttccatcata actacaa 327

<210> 12807

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-E7

<400> 12807

tatagaacta acttatcgta aaaaagatta agaaaaaaag aaccatgac tgcgggggtgc 60
 ctgttttcca acaagttgtc acttccttga gctgaaccat gttgaataaa ggaaccaagc 120
 gatccacaat ggagaaatga caacaagata tgccaagata aatgtaactg gctcgttcga 180
 caaaccacaa ctatatattgt tggattccat cacatcacgt ataaaacatt gggccttgta 240
 atgaaacttc cgtgccaatg agatgaaaat gcctacctac aacagcaaca actgctttca 300
 tgtagccctc tcgttggtgg taatgcacct acatacctgc aacaacaatt gctgcaacag 360
 attgtaccag ctctgactca tctagctgtg gcaaaccctg ctgtctactt gcaacaac 418

<210> 12808

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-G3

<400> 12808

gctgcttatt tacagcagca acaactacta ccattcagcc agctagctga tgtgagccgt 60
 gctgccttct tgacacaaca acagttgttg ccgttctacc tgcacgctat gcctaacgct 120
 ggcaccctct tacaactgca acaattgctg ccattcaacc aacttgcttt gacaaactca 180
 acagtgcttct accaacaacc catcattggg ggtgcctctt tttagattgc ttatgagtta 240

tagttcaata atgaagtttt ttggatgatg tttgtggcgt cccagaaata agaaagtaca 300
 tttctagatt ca 312

<210> 12809
 <211> 188
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-G5

<400> 12809

actcggttcg gaattcccgg ctcgaccac gcatccgatc gtcctccact ccaaggagat 60

ctgcatgtct gtcacctca tccgacacaa cgtgagtttc cttegatacc tccgcaacct 120

tatgaacacc-aaccggttcc-actcgcccat ccactttcac tccccctcca atatccttca 180

tcacacca 188

<210> 12810
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-G6

<400> 12810

accacgcgt ccgggcacaa aacatcaggg cacaacaact acaacaactc gtgctagcaa 60

accttgggtgc cgactctcag caacagcagt ttctgccatt caaccaacta gctgcattga 120

actctgctgc ttatttgcaa caacaacaac tactaccatt cagccagcta gctgctgcct 180

accaccagca atttcttcca ttcaaccaac tggcatcatt gaactctcct gcttatgtac 240

aacaacaact actaccattc agccagctag ctgctgtgag ccctgctgcc ttcttgacac 300

agcaacagtt gttgccgttc tacctgcacg ctgcgcctaa cgttggcacc ctcttacaac 360

tgcaacaatt gctgccattc aaccaacatg ctttgacaaa cccaacagcg ttctaccaac 420

aacccatcat tggtggtgc 439

<210> 12811
 <211> 317
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-G8

<400> 12811

ggaattccag tgtcgacctg gacgtacggt tacggtacgt cctacggtc ctgttctcac 60
atatatagga cagagaacaa taaattgcag aatccgtatc ttattatcaa ctggtataaa 120
tcccttcggt tcaagcgcat caaggccctg ttcaaagccc acacaaagca tcaccggacg 180
gtgctactcg acaacatata gatcatcagc aatcatacta tccctatgct atcacggatg 240
cacgacactg accgcatttc tgagctcacc tactagaata cccgcaacgt actcaagatc 300
tttatggaaa acttcat 317

<210> 12812

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-017-Q1-K1-H12

<400> 12812

cggttcgacc cacgcgttcg cccacggtc cgcggtacgt tggggcattc agagtggcgt 60
gctgctaaga aggctaacgg aatgaagggt gtttctctta taaggagaa gacaggatat 120
attgtcagtc cagatgcaat gtttgatgtg caggtgaaaa ggatacatga atataagcgg 180
cagctgctaa atacccttgg aattgtctac cgctacaaga agatgaaaga aatgagcaca 240
gaagaaagag caaagagctt tgttccaagg gtatgcatat tcggtgggaa agcatttgcc 300
acatatatac aggcaaaaag gatcggttaa tttattacag atgtggcagc tacctgtaac 360
catgattcag acattggaga tttgttgaaa gtcgtatntg ttccagacta taatgttagt 420
gttgccga 428

<210> 12813

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-H2

<400> 12813

ggattcccg tgcactcacg cgcccgccca cgcgtccgcc cagcgtccgg gtcaccaca 60

ccaaccaaca agcaaaaatt ccggagatgg tactagtctc cgcggcgaag atgtcagtgc 120
 gcggcaaggg cggaagggc ctgggcaagg gcggcgcgaa gcgtcaccgg aagggtgctgc 180
 gcgacaacat ccaggggatc acgaagccgg cgatccggat gctgtcgcgg cgggtgcggcg 240
 tgaatcgcat ctcgagctc atctacgagg agaccgcag cgtgctcaag aactttctgg 300
 agaacgtcat tcgatactcc gttacctaca ccgagcacgc gcgccgtaag accgtcaacg 360
 gcatggacga ttacta 376

<210> 12814
 <211> 168
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-A10

<400> 12814

ggattcccg gtcgactcac gcgtccggca tacagttatc tgctatactc cattgcataa 60
 ggtcccggtg gatcaattag ctaggaataa tagttagcta gctaagggca tgcacagtaa 120
 gggagtgttt ggtacgatga atcaacttat ctatgcacag ataaagaa 168

<210> 12815
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-A7

<400> 12815

accacgcgt ccggagacat ttaacaactt tggagacaat ctggatcgca aaacagtgg 60
 gcatagactg gttggatgtg gagttgcaga gaaagtgggt gctgctgggt tgagatgcat 120
 cgtaagcaac caggataagt ggtacctaga tcaacttggat gctacatggg aaggatttta 180
 cacgaatgaa ccactgacaa atatctacaa cccggagcag cagaaattgg tacttgggtg 240
 tgaggtatgc atgtggggcg aacacattga tgcacagac attcagcaga caatttggcc 300
 acgtgctgca gcagctgcag agcggctatt gacaccaatt gagaagctgg cgaaggacac 360
 aagatcggtc actgcaagat tggcacgctt caagtgttg c 401

<210> 12816
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-A9

<400> 12816

ttctttttcc cccacgtgcg ccgcgcgcac cttcctcgat cccatctccc agcgccgccc 60
cctcgccctcg ggatccccgcc gccgctccat ctgcctttgc tccccacccc gcaggcagcg 120
agcgacagcg acggcaaggg atggccaagg ccaggtcggt ggccaagcag aagcaggcgc 180
agcaatcaaa cggcggcagc tgccaacgcgc tgtcctgcaa gctcgcccgg tacctcgacc 240
cggaggcctc catggacatg gaccaactgc tggacgcggt gcactggatc cgccaggcgg 300
tggtgctcat atgcagcctg ctctggggag ccgtccccgt cgtcggcgcc ttctggatcg 360
cactatttat ggccatctcg actggcatta tctattgcta ctacgcctac ttgctgaaag 420

<210> 12817
<211> 311
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-B6

<400> 12817

cgcagttgcy agagttggtc gtactgttgg tacttggtag catccctgcc tggcctggtc 60
tttgagtga a gcgttggaac gtggcggtgtg tgtagtgtaa ctgtgtatgc aggcggtgat 120
ttatatgcat gcttccttta agtagattgc cagtagtatt tgcgtatggt gagctggtcg 180
gtccttaaty tctgtcccca tgtacaaaac cagatcaaga tgcttgggct tccggttgag 240
tttacgcctt aggtgctggt tgtttaccct cgacattata taatccagct taaataaatc 300
aagagttaaa c 311

<210> 12818
<211> 202
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-B9

<400> 12818

cccacgcgtc agcagaatca tcaacatcat catcagtagc agcgcagcac gggcctgggc 60
 agcaccagct tctccagttc ctgcacacac aacagcagat tctccagaag caccagtttc 120
 tgtttgttct tctgtttttt ctctcccage accagcttgt actgcactta cagttaaaag 180
 attattacta acgttgtgtg cc 202

<210> 12819
 <211> 425
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-018-Q1-K1-C11
 <400> 12819

tccgtccgga ttcccgggtc gatcacgcgt ccggccacac attcgtgcag aaaatgcagt 60
 acttatcaca atggatataa aatcggatcg tgatgctgag catgctaaag gcaatgttaa 120
 tgttgacata gatctctacg aaggcatctg cactgacatc ttaactttaa taatatggaa 180
 actgtatgtc acaaaaattat actctctaaa atactctggc aatgctgttt gcactgagct 240
 gatgattgtc gagatcatta tggcaaatcc aacaagagat ccatgatcag atgccgagac 300
 tgacgacgat atggacgatg attattgtga tcatagtatt atgctttaga tgacttatat 360
 caggtatcat agcatatata atactttata tttgctgaag gttctgtata atgtatgtta 420
 gcctt 425

<210> 12820
 <211> 379
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-018-Q1-K1-C7
 <400> 12820

tgaagcttgt attccagccg gctgagtgtg tggccagggc ggcgcgtact acgggctggg 60
 agaaggcgtc cttgacgacg cgtcagccat attcggcttg cacgttgacc cggccctccc 120
 cgtcggcgtc gtttcgtcca ggccagggcc cttcgcggcg acgtccggtc ggttcctggc 180
 gacggtcacc ggtaaaggcg ggcaagccgc gatgccccac gaatccatcg accctgttgt 240
 agctgcagcc actactgtcg tcagcctcca gaagatcatc ttccgagata tcgatccctt 300

gcagggcgcg gttgtgtccg tcacttttct taatggagga gtagcttaca ttgtctttct 360
 agatattgtg gcctttttc 379

<210> 12821
 <211> 205
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-C8

<400> 12821

aattcgaaag actttctcaat tacattacaa aaaaacatca acttttatcc tcatgatatc 60
 atgttttacc acaaattaat gacattacga catgccacag ttctttctca tagcttctta 120

caatctttaa atcctacaca cctcaatacc ctattactct atatcttata tagtagatat 180
 atttactcaa attgtcatcc tttat 205

<210> 12822
 <211> 311
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-E2

<400> 12822

gattccccgc tggacccacg cgtccgcgga cgccttcgga gcaaaataac tcgttacata 60
 aggagacgcc gaaaattcga aatggtaggg ttaagcaaac ctgatggcgg atgcccactg 120
 caaagcaaag caaatggcgg atgccccgag caagatcgaa tgcattgatta agagcctcga 180
 ccagcacaag ctgagagccg tatgttgcca ctggctaggt ggcattcagca gttcgatcgc 240
 ctacaactgg tcgcggccca atatgaagcc taacgtcaag atcatccact caaggttgca 300
 tgctcaagct c 311

<210> 12823
 <211> 264
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-E6

<400> 12823

accggtctcg gaatcccgtc cgacgccacg cgtccgcgga ctctgtgggct gacgcgtttt 60
 ccttttagctc aatgacggaa ggggtcatagg agtgggttcca tctactgggtt aactggagcg 120
 ttcgctatgg cgataggcgt cataaggaga acgttttttg ccatacacta gcgttcttaa 180
 cttctactaa ctttctctgt agtttctctt ctttttgtcc tgtctcatct catttgcctc 240
 atctttatctt acatttttat atca 264

<210> 12824
 <211> 403
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-018-Q1-K1-F6

<400> 12824
 cccggctcga cccactcgtc ctatggcagc atggacgcta aattctacat acgacccgca 60
 ctccaaattc gcctgctcag gtatcaccat ccattcccgt agctactgcc tactctcatc 120
 aacaacaact ttttccattt aaccaattgt ccgcacttaa ccccgctgct tatttgcac 180
 atcaaatact actaccattt atccagctag ctgcatcaag cgtttcttcc ttctttacac 240
 atcatcagtt gctgcctttc taccatcagt ttctggctaa cccctcaacc ctcttacaac 300
 tacaacaatt gtttcccttt gtccaacttt cttttacaat acccatattc ttctaccaac 360
 aacacattat tttttattcc cttatttata tttcttatta ttt 403

<210> 12825
 <211> 432
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-018-Q1-K1-F7

<400> 12825
 tagcaacata gaaagcacia tagtgtacca acaatggcag ccaaaatatt ttgcttcggt 60
 atgtcccttg gtctttctgc aagtgttgct accgcaacca ttttcccaca atgtccacaa 120
 gtcctatag cttcccttct tccccatac ctctcaccag cgggtgtcttc agtgtgtgaa 180
 aaccaattg ttcaacccta caggatccaa caggcaatcg caacaggcat cttaccatta 240
 tcacccttgt tctccaaca accgtcagcc ctattacaag agttaccttt ggtccatttg 300

gtggcacaaa acatcagggc acaacaacta caacaacttg tgctagcaaa ccttgctgca 360
tactctcagc aacatcagtt tcttccattc aaccaactgg ctgcattgaa ctctgctgct 420
tatttgcaac aa 432

<210> 12826
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-H8

<400> 12826

tgaaatttct gccaaagagca actacaactt tgagaaacct ttctgtacc ttgcaaggga 60
gctggctggt gatccgaacc ttcactttgt tgaagctggt gctcttaagc ctccggaagt 120
taccatcgac atggctatgc agcagcagca tgaagctgag cttgctgcag cagctgcaca 180
acctcttcct gatgacgatg atgatctgat tgagtagaaa ggatcatgag tcttggaactt 240
gagcaggagt tgtgccttgc acgatttaag ttgttctagg gtggactctc tcttgagtta 300
tcattgtctg gatcattttt ttctccttgg acttggttga acttttgagt gtggaaatgg 360
attggaatag tcgccatgaa tttgctggct actttataca tgtctttggt cataaacctt 420
ggttt 425

<210> 12827
<211> 465
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-H9

<400> 12827

taccggtctc ggattcccgg gtcgactacg cgtccggcaa accttgctgc ctactctcac 60
atcagcagtt tcttccattc aaccaactag gttcattgaa ctctgcttct tatttgcaac 120
aacaacaact accattcagc cagctacctg ctgcctaccc ccagcaattt cttccattca 180
accaactagc agcattgaac tctcctgctt atttacagca gcaacaacta ctaccattca 240
gccagctagc tgggtgtgagc cctgctacct tcttgacaca accacagttg ttgccgttct 300
accagcacgt tgcgcctaac gctggcaccc tcttacaact gcaacaattg ctgccattca 360

accaaacttgc tttgacaaaac ccagcattgt tctaccaaca acccatcatt ggtggtgccc 420
tctttagat ttcttatgag tcatagttca ataataaagt ttttt 465

<210> 12828
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-A9

<400> 12828

accggtccgg aattcccggg atgaccacg cgtacaaaca cacctagcga agcacattag 60
caactaccta tcaacaatgg ctaccaagat attatccctc cttgcgcttc ttgcgctttt 120

tgcgagcgca acaaatgcgt tcattattcc acaatgctca cttgctccaa gttccattat 180
tacacagttc ctcccaccag ttacttcaat gggcttctaa caccagctg tgcaagccta 240
taggctacaa caagcaattg cggcgagcgt cttacaacaa ccaatttccc agttgcaaca 300
acaatccttg gcacatctaa caatacaaac catcgcaacg caacagcaac aacaattcct 360
accagcactg agccacctag ccatggtgaa ccctgccgcc tacttgcaac agcagttgct 420
tgcatcaaac ccacttgctc tggcaaacgt agttgcaaac 460

<210> 12829
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-B5

<400> 12829

gccacgcgt ccgcccacgc gtccgcccac gcgtccgccc acgcgccgg gtcgcggggc 60
tgttggcggc gcagatagcg cagcaactga cggcgatgtg cggcctgcag cagccgactc 120
catgccccta cgctgctgcc ggcggtgtcc cccactgaag aaactatgtg ctgtagtata 180
gccgctggct agctagctag ttgagtcatt tagcggcgat gattgagtaa taatgtgtca 240
cgcacacca tgggtggcag tgtcagtgtg agcaatgacc tgaatgaaca attgaaatga 300
aaagaaaaaa gtattgttcc aaata 325

<210> 12830
 <211> 118
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-019-Q1-K1-C1

 <400> 12830

 ctgactccaa atgggtgaca caacgtaaaa tatacagcta tctacttcgg ctgtaaacad 60
 acgtgtctcc gaagtttttt atattttggg ctaaaaaaaaa aaataacaaa aaaaatca 118

<210> 12831
 <211> 355
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-019-Q1-K1-C10

 <400> 12831

 attccccgggt cgaccacgcy tccgccacgc gtccggaaaa aataatgttt aaagtgcagg 60
 ctatgggaaa gctggactct gagaatcaact tgtcggctgc aactgaggtg agacttcac 120
 agatcacagg atcctgccac tggacgtatc tcgcgctact ggaaagcgat actttacgtt 180
 tcggccctag cttttgcttg tcggccagga tacaagaaca tgctttgatg ccattctcca 240
 aattggcata atgtgagaat tgaccggctg cagcactgtt cggcatattg acatactatg 300
 accaatggag tatgttatgt agctagctgc tactttgtag ttagtgcgty atgat 355

<210> 12832
 <211> 168
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-019-Q1-K1-C7

 <400> 12832

 cccacgcgtc cgcggacgcy tgggaaatta aaaaaaaaaa aaaaaaacg aaaaaaagg 60
 aaaaaaaaaa taaaaataa aaaaaggcca tacaatttag aagatccaag cttacatccg 120
 ctttcttgca aagtcttaac tcttttatag tgatacctaa attcattt 168

<210> 12833
 <211> 370

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-019-Q1-K1-C8

 <400> 12833

 caactcccca gtcgtagacg actggcttta cagcgacgag accaggagcg gccaccggtg 60
 gatcggggcga gatggatgga cagtgaagag gccatgtttg ctggtccttg tggttatcta 120
 aaacgcacgc atgctctatt atagctagtc atcactatat atatacttgt gtttgtgtat 180
 tgatgttctt gttctgctgg tgtctccgcc gtttaatttg acctatgtta tggagtgagt 240
 gatatatgtg ccgtcactcc tagtatatag tagtgagtga ctagttggta tgtgtagtac 300
 tgtactatct tttatccata tgcattgttt gccagcgcg atgaatgta atgtcagtac 360
 tgctactaac 370

<210> 12834
 <211> 72
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-019-Q1-K1-D12

 <400> 12834

 attctttgca actctgagta gagagataca cggaatgttc agcttttcag atccaaagga 60
 aaaaaggaaa aa 72

<210> 12835
 <211> 133
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-019-Q1-K1-E1

 <400> 12835

 cgattcacgg ttgatctggt gactgctgtt cagtttgctt ctttcgcgta aaattatcgg 60
 gtgctctgga aaagaaactt gaggcttgta ttgcatcttt gataacataa tattataata 120
 tatgtagaga ctc 133

<210> 12836
 <211> 223

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-019-Q1-K1-E10

 <400> 12836

 ggaattcccg ggtcgaccca cgcgttcgaa aaaaaaaaaa aaaaaaaaaa aaaatttaaa 60
 aaaattaaaa aaaaagaaaa aaagatatgg aaaatagga ttacaaaat caataatgct 120
 aaattattaa caataaaaaa gtggtatcta aattcatata aattggacga tatttaacaa 180
 ctgtaactaa tgataaaacg ttgtaagtta gcatcttat taa 223

<210> 12837
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-019-Q1-K1-E4

 <400> 12837

 tgaagctgtt acccgcaaga cccgtattct cgacgtggtc tacaatgcat caaacaatgg 60
 gcttgtgagg accccaaacc ttgggaaaga gtgccattgt gcaagttgat gctgccccat 120
 tcaagcagtg gtacctcact cactatggag ttgacattgg taggaagaag aaaacccttg 180
 ctgcaaagaa ggataatgct gagggacaag aggttgaggc agcagctgag gaaacgaaaa 240
 agagcaacca tgtcacgagg aagcttgaga agcgcaagga gggacgtacc cttgaccac 300
 acattgagga gcaatttggc agtggacggt tgctggcatg catttcttcc cgccctggac 360
 agtgtggccg agctgatggg tacatccttg agggtaaaga gcttgagttc tacatgaaga 420
 agctacagaa gaaga 435

<210> 12838
 <211> 469
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-019-Q1-K1-F5

 <400> 12838

 accggtccgg attccccggg cgactcacgc gtccgaggac gcgtgggctc gcgcatecta 60
 ttgccctcgc gccaccgtcg ccgcgctgc agcgagccac cgccctgccg tcgcctgagg 120

tagacaccaa gccaccgcca tggggcgat gcacagccgc gggaagggtta tctcttcac 180
ggcgctgccg tacaagagga ctctccgat ctggctcaag acagctacca ccgaggtgga 240
ggagatgatt accaaggctg cgaagaaggg ccagatgccg tcgcagattg gtgttctgct 300
ccgtgaccag cacggcatcc cgcttgtaa gagcgtgact ggtagcaaga tctgcgcat 360
cctcaaggcc catgggttgg cgccggagat cccggaggat ctctacttcc tcattaagaa 420
ggccgtggcg attaggaagc atctggagag gaacaggaag gacagggac 469

<210> 12839
<211> 452
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-019-Q1-K1-G4

<400> 12839

tgcataccaa caacaacaac aattgcaaca gtttctgccg gcgctcagtc aactagccat 60
ggtgaaccct gccgcctacc tacaacagca acaactgctt tcctctagcc ctctcggtgt 120
gggtaatgca cctacatacc tgcaacaaca attgctgcaa cagattgtac cagctctgac 180
tcagctagct gtggcaaacc ctgctgcta cttgcaacag ctgcttccat tcaaccaact 240
gactgtgtcg aactctgctg cgtaacctaca acagcgacaa cagttactta atccactagc 300
agtgcctaac ccattgggtca ctgccttccct acagcagcaa caattgctac catacagcca 360
gttctctntg atgaaccctg ccttgctgtg gcagcaaccc atcgttggag gtgccatctt 420
ttagattaca tatgagatgt aatcgataat gg 452

<210> 12840
<211> 446
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-019-Q1-K1-H2

<400> 12840

ctgctgggtc gaccacgcg tgcggctttg gtggcaagaa aaagctggtc ctctccactg 60
caacctggct tgggggaaga acgattttcg tggctttgca taccttatag ttgggtgggt 120

ctgcattttc ctggcatttg cattcacctt gctgtacttc gtaaaaccaa ggaaactggg 180
agaccacaac tacttatcct ggaacagacg ctaggatgtt tcggaacacc aagtgtccgt 240
actactcgaa atgtagcttg tatgaaatga aatgctctga accagaaatg tcgatgggca 300
taagcaagca tggttcagga aagaacttca tgtatatttt ttacgaaggg gtctaagtgg 360
ctacgttaat tttggtttct tgggggtcctt agtgtagcac tgaacaggag aataccaaat 420
gaactctatt agcttgcttc cgtgggt 446

<210> 12841
<211> 228
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-H9

<400> 12841
gtacgtccag agttgcgaca ttgtggcttt caacaagatc tagagttcag tttctgagtt 60
tgggcaacgg cagcgggtca gctcgtcaag tttgtgctgg gatgccagtt tatcccttct 120
agtctattac agaaatgttg ttcggagctg agtctattat aaacatcttg gtctgagttt 180
attgttgagt ggtgccagtt tttttcaata tacatttatt ttaaaaaac 228

<210> 12842
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-A3

<400> 12842
tactgtcacc gcttgaactc aatccagtca tattgtgata tcaatcgaga tggttataggg 60
gaagtttagcc acctgtctgg ttattcggtt tctgcacaaa acaatattat ccacccatcc 120
tctgttcttg gatcaaagac tacagaccac actgtattct tgctgagggg tcacagcttg 180
gtgacaagtg tagtgtgaag cgatctgtga ttggctgtca ttgccgaatt ggttccaatg 240
taaagatcgt caactctgtt gtgatgaatc atgttggtgt tgaagatggg tgccacatcc 300
aaggttctgt tgtatgtaat aatgttcaac tgcaagaacg ggcagttctg aaagattgcc 360
aggttggaac tggttatatt gtgactgctg gcagcgagca caaagc 406

<210> 12843
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-A6

<400> 12843

tgtacatcat ccttatgggt tatctggaaa tggattgcc a tgtttctcaa ttctctccca 60
 gctactacaa gtctacaacc tacccttcac gctttctctca aggtatgaat ctgcttcagg 120
 acctcctatt tatgtgccat tggttaatta gagttcttat gttgttttag atggctgggt 180
 ctgctttcct gtttacgaat tatgcgtcgt cgatagggcg tccgtaaggg cgcctctgac 240
 cacctactgt gtgcttcgct acattttcag cccaccgtgt gccagcccac gcctgcttgt 300
 ttaaaacgcg cggcggtgt ggcggttagt cgttggtttc ttgtgcgctg tgctgccgcg 360
 cttgcatatg ctcagacttg caggcaatct gtcgtgtgcg cggctgggct ggaccttcaa 420
 atgcagatgc acagca 436

<210> 12844
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-A8

<400> 12844

cccacgcgtc cgaagcaaca tagaaagtgg aatccagtag caacaacaga gcaacaatgg 60
 cgaccaagat attttccctc cttatgctcc ttgctctttc tgcctgtgtt gctaacgcga 120
 caattttccc tcaatgctca caagctccta tagcttccct tcttcccca taccttccat 180
 caatgatagc ttcagtatgt gaaaaccag ctcttcagcc ctataggctc caacaagcaa 240
 tcgcagcaag caacatacct ttatcacct tgttgtttca acaatcgcca gccctatctt 300
 tgggtgcagtc attggtacaa accatcaggg cacagcagct gcagcaactc gtgctacctg 360
 tgatcaacca agtagctctg gcaaaccttt ctccctactc tcagcatcaa caatttcttc 420
 cattcaacca actg 434

<210> 12845
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-B1

<400> 12845

accggtccgg aattcccgcg tcgcagctag tcgtccgccc actcgtgcgt cctactctgc 60
 cagcgccacc tccacgcata caagcggcgg ctgcgggtgc cagccaccgc cgccgggtca 120
 tctaccgccc ccggtgcata tgccacctcc ggttcacctg ccacctccgg tgcattctccc 180
 accgcccgtc cacctgccgc cgcgggtcca cctgccaccg ccggtccatg tgccgcccgc 240
 ggttcattctg ccgcccgcac catgccacta cctactcaa ccgccccggc ctcagcctca 300
 tccccagcca caccatgcc cgtgccaaaca gccgcatcca agcccggtgc agctgcaggg 360
 aacctgcggc gttggcagca ccccgatcct gggccagtgc gtcgagtttc tgaggcatca 420
 gtgcagcccg ac 432

<210> 12846
 <211> 426
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-020-Q1-K1-B2

<400> 12846

cgacccacgc gttcgctcag ctagctgcgg caaacctgc tgtttactta caacagttgc 60
 ttacattcaa ccaactggct gcgtgaaact ctgctgcgta cctacaacag cgacaacagt 120
 tacttaatcc attggcagcg gctaaccat tggtcgctac cttgctgcag cagcaacaac 180
 aattgctgcc atacaaccag ttctatttga tgaacctgg cttgcagcat cccatcgctc 240
 gaggtgccat gctttaaatt acatatgaga tgtactcgac aatggtgccc tcataccgac 300
 atgtgttgac tagaaataat caatatatcg atcgagatgc atctcgatca ataaaaagct 360
 ttaggaaccc cggtcggngt gtggtgggag ttcggcaagg acggcgacac ccacctactc 420
 ggcgac 426

<210> 12847

<211> 136
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-C11

<400> 12847

ttgttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttgtg 60
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
tttttttttt gttcttt 136

<210> 12848
<211> 161
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-C8

<400> 12848

gttcatgtac tttttctgca ttaagataaa tttaccaaca aggactccat gaattgtttc 60
tagttcaatc aaatatacgt tattattaca atgcttattt tatcactttt tttaccttac 120
ccatttttaa aacatctctt tgggtctcatg ctatatattg t 161

<210> 12849
<211> 527
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-020-Q1-K1-D6

<400> 12849

accggttccg gaattcccgg gntctacca cgtcgtccgc tcgacgtcct ctctctcttt 60
cctccgagtc ttctcgaaac tcctaggtgt cgtgtccgac tcggtcggcg gcggctgagg 120
gtgatggtcg atggactccg gtacgtctgt ggtcgaaagt ctcttcgtgg agcatctact 180
actcggactg ttcgacacca taccgcgcgg cgtctggtgg ggtctgtatc agngagactc 240
tccatgtctc actcttcgag ggctcagaag ttccagggtc ccatccgcca ttgctcggca 300
agtctcggat ctenttcct tccaggctct gcgagcacct agatcgtcac tcgtcgactt 360
gccagccgtc ggggccccag gganggcatt gctcgtcttc gtctctcggg tccattccgc 420

actcggctcc cgtaggagca tccccatcaa ggttctctca gggcatttcc atttgctgcc 480
ggcaagctgg gtcccttctt cgtgcagnaa tgatcatgtt ccgcctg 527

<210> 12850
<211> 261
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-E10

<400> 12850

tacgtttctt gctccccctt cagggctccg atcgctaggc tagctgcagc tcaggtgctt 60
gtctgagggt gcctctgctc gttggcagcc ggatcgctg ctgttggtgc atctggtgat 120

taataatact actatgacag agccatgctc tgtgaagagt attagtagca gcgctcataa 180
aagctacagt tccgtctctt ttctcagcta tgtaaaactt ccaaactgtt catgcttaaa 240
actgagggtt ttcttggtgt g 261

<210> 12851
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-E7

<400> 12851

aagcaacata gaaagtggaa tccagtagtc aacaatagag caacaatggc gaccaagatg 60
ttttccctcc ttatgctcct tgetctttct gcatgtgttg ctaacgcgac aattttccct 120
caatgctcac aagctcctat agcttccctt cttcccccat accttccatc aatgatagct 180
tcagtatgtg aaaaccacgc tcttcaacct tataggctcc aacaagcaat cgcagcaagc 240
aacatacctt taccaccctt gtttcaacaa tcgccagccc tatctttggt gcagtcattg 300
gtacaaacca tcagggcaca gcagctgcag caactcgtgc tacctgtgat caa 353

<210> 12852
<211> 534
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-020-Q1-K1-E8

<400> 12852

accggttccg gaattcccg gntctacca cgtcgtccgc ctagtcccat gtatgccaca 60
gtgttctcct caccagttat cttcatatgg cctgtcgaac accgcgagct gtgtcaagtc 120
ctatgaggct acatacaagg cgattggcgg cgagcgtcgt tacaacaact caattagccc 180
aattgacaac aactaatcca ttggcacatg ctaacaatac agaaccatgc gcaacgacat 240
cagcaactaa cagttgecta ctcagctact gagccatcct agccatggnt gaactcctgt 300
cgtcctacgt tgcaacagtc agctgcttgc tatccaaccg cactttgctt ctagcaagac 360
gtagattgca aaaccagtca acaaccaaca tactgcaacg agtttctggc cagcgcttag 420
tcaacttagc catgtgtgaa ccactggcgg cctgacctac atacagcaac aacatggctt 480

tcatnctagt cccgcttcgc ttgtgtgcca atgctaccta catactctgc aaca 534

<210> 12853

<211> 339

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-020-Q1-K1-F10

<400> 12853

tcccggttcg acccaacgct tcgcggacgc gtgggcggac tcgtgggttt tttttttttt 60
tttttttttt ttgggttttt gttttttttt tttttttttt tttttttttt tttttttttt 120
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 180
tttttttttt tttttttttt tttttttttt tttttttttt tataaaaaaa ataaattttt 240
tnttttaaaa ttttaataaa tttttatatt ttataatttt aatttttttt ttttaataat 300
atattttttt aataatttat ttttatttta tttttttttt 339

<210> 12854

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-F2

<400> 12854

tagcaacata gaaagcacia tagtgtagca acaatggcag ccaaaatatt ttgcctccgt 60
atgctccttg gtctttctgc aagtgtgct acggcgacca ttttcccgca atgctcacia 120
gtcctatag ctcccttct tccccgtac ctctcaccag tgttgcttc agtatgtgaa 180
aacccaattc ttcaacccta caggatccaa catgcaattg catcaggcat cttaccttta 240
tcaccttgt tctccaaca atcatcagcc ctattacagc agttaccttt ggtgcattta 300
ttggcaciaa acatcagggc acaacaactc gtgctagcaa accttgctgc ctactctcag 360
caacaacagt tacctttggt gcatttggtg gcacaaaaca tcagggcaca acaactacaa 420
caactcgtgc tagcaaacct t 441

<210> 12855
<211> 353
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-020-Q1-K1-G1
<400> 12855

ggaaatacga tgctggtttg aactttacat gtgttggtt ggcaccatg gaccaacatg 60
aagtataccc tgaggcattt gcagatccag aaggccta atggcaggtg ctaa atgctg 120
cgtgggatgc tggatataca gtggctagt agaacgctct accttgctat gatagggatg 180
gattcaacia gatcttggtg aatgccaaac ctctgaatga cccagacgga cggcatttgt 240
taagtttcac ctacctagg cttggcaaag atctgtttga gagaccaac ttttttgaat 300
ttgagcgctt catcaagaga atgcatggtg aggcggttct tgatctgcaa gta 353

<210> 12856
<211> 356
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-020-Q1-K1-G4
<400> 12856

tggacacgtg cgatggtctc gactctggtt ctatatgcta ccaagacgct gactctgagc 60
gcgactgcga tgacgaggca catgttacgt gatgcgcaac gagttgcaca gatggccgat 120
gcctgtgata aaccagggtt gtgccgacta ctacgtgct ctgcctacca ccacatgcct 180

tgctaaggca	tgcatggcgg	acctgatgct	tccagtctac	gcttcccatg	ccccgagaaa	240
tagctaccgg	tgctatgcgc	ttggctagt	tgatgactgc	tatcatggga	gactcagcag	300
tgccagctta	tatgtgtcta	tgatctcgca	gccgagcact	tggaaatctg	ggccca	356

<210> 12857
 <211> 340
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-020-Q1-K1-G6

 <400> 12857

ttagaactga	aggaaagacg	gtagctgtag	gcaaagttgt	tgatattccg	cctgctggta	60
gcccacatt	ctgagcttaa	gtcaattttg	aacaggatgg	ataatcatga	agcagtgcgt	120
tcgcttaaga	tacttttttt	tgggaagtga	gattagttgt	tgaggttaga	ttttttttca	180
gtccatcttg	agaatgggtct	atgcctttat	ggtttaggct	agcaagtctt	agattggttg	240
cataaaatta	catctctggg	tacatgtgag	gttgtaaaat	cagtatggaa	ttatggatga	300
gtgtaccaac	cttaatgtac	ccgttcaaga	ttatggtggt			340

<210> 12858
 <211> 404
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-020-Q1-K1-H5

 <400> 12858

catccccctg	catatactaa	ccctgcaaaa	ctgaagggtg	atagcaaaat	acaatgagga	60
ttgtgtacat	ggcagctggt	atgtgttttg	ttcttgcaac	catgtcttct	acctccccat	120
cattctgcca	agctgggggc	tgcatcggct	gccacgggc	tccaccaccg	ccgtccgatg	180
agacatgcta	cgaggacctc	aagtgttcgg	cttcgagggt	ccacctgggt	tgcatacaca	240
ggggctacaa	gggtacgggt	tcgtactgtc	gtgggagggg	ctgctgctgc	aaacattgat	300
gcaccgtagt	gcatttatgc	atttcatgac	catacaataa	acctagatgt	gtatcctttg	360
cctccgacga	ctataaatga	aatgaaatac	tactaagggt	cagc		404

<210> 12859
 <211> 86
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-021-Q1-K1-A10

 <400> 12859

 ctaaatccat tcttactact ataattatct caaactttct gtacctttac actcattaaa 60

 ttatgcattc ttaattcaac ccattt 86

<210> 12860
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-021-Q1-K1-B1

 <400> 12860

 ggaatttccg ggctcgaccca cgcgcccgcg gacgcgtggg tccaactcct gagcactttc 60

 tctctgtccc agacaagcca atcggagccg gggtagcacc atggactcca ccggcaccgg 120

 agcaggggggt aaggggaaga agggagcggc cgggcgcaag gtcggcgggc caaggaagaa 180

 gtcggtgtcg aggtccgtga aggcgggtct ccagttcccc gtcggccgca tcgggcgcta 240

 cttgaagaag ggccgctacg cgcaacgtgt cggcaccggc gccccgtct acctcgccgc 300

 tgtcctcgaa tacctcgccg ctgaggttct ggagctcgcc ggtaatgctg ccagggacaa 360

 caagaagact cgcattattc cgcgccacgt gcttcttggc gatccggaac gacgaggagc 420

 ttgggaagct gttgggc 437

<210> 12861
 <211> 294
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-021-Q1-K1-B7

 <400> 12861

 ccttcgaagc tgagccccgag aagctttgcg acgctggaat ggaccgttcc tgaagacgcc 60

 ccgtcggggc tttatagggt gaggcatttt ggtgcctgca aaccactgat tgggtccatc 120

 aaacattgta ctgggacctc tatggcggtc gcagtgcgtt aggtagcaca ccagtgcgtt 180

gcgttgcggt cgacggcaca cctgtcagag aatcgacacc gggtcataata cttactttgc 240
 atacctgccca cagtatatgg acatgttttg cctatagtta ctaaaaagat gaat 294

<210> 12862
 <211> 363
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-C6

<400> 12862

tggtttttttt tttttttttt tttttttata tgcaatgcaa tgattggata tatacagggg 60
 tcacaaaaag aattggcgta caaaccacac acacctaatac gattctcctg cacaaaggct 120
 gttgcattca gcaacctgta cactttatatt attcctcgtc gggaatcagt cgtcctctc 180
 cggcgaggag aagaacgacg acgacgagct gaccgagagg gacctatggt gtacacttca 240
 ttattcctcg tcggcaatca gtgactcgtc ctctctcgac gaggaggagg agaaggacga 300
 ggacgaggac gacgagctga ccgagagcga cctccggtag gtgtacagaa ccgcgtcggg 360
 cac 363

<210> 12863
 <211> 146
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-C9

<400> 12863

cccacgcgtc cgctcaatgt ttgttgtgtg aacagagata cgcgtttgaa tttggcgtaa 60
 agcgaactgt tgtcttcttt ttcccttccc ctctctctct atctccagtc atcggttaata 120
 ggacaagtac ctttccttat tccatc 146

<210> 12864
 <211> 362
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-021-Q1-K1-D5

<400> 12864

ccggttccgg aacttcccgg cgtcgactcc acgcccgtcc ggaggatacc tttnngtttct 60

tggtaaggtn nctgttatgc atggtntttg aacccannta gcaatgtggg cggagcgttn 120

gtgtaaatna ctgtcagtat gatcggaatt ccaactannt tcatcannac cgaaatnnta 180

tggcgcgcct tcannatcgt ggctaccgcc ctgatgggga ccctgannt ccgttatnng 240

gtgtnnngctt gaannntcgt ggctttgtgg agaaaatgtg tggaaacttc aaattggctt 300

aaagtnnnngt gcttntnnat taactaatgn nngtgatgct ngnnatggaa ctngnnattt 360

tg 362

<210> 12865

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-E10

<400> 12865

tgagggaggt gatgatgcac attccgtaga ttatgagagc agcgaacaga gttggggccct 60

gaggtcttta tctgaatcaa ctatagcatg tgttactagt gattacgcga tgcaaaacgt 120

catcctgcag attggcctcc ggctcatagc accgggtggc atgcagatac gccagatgca 180

taggtggggtt ttgaggtgcc atgcttgcta taaggtgacc caagagggtg gcaaaatatt 240

ttgtccgaag tgtggcaatg gtggcacctt aaggaaggtc tcagtaacag ttggtgaaaa 300

tgggatcact atggcttcac ggcgcccacg tgttacactt tgaggcacia aattt 355

<210> 12866

<211> 221

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-E5

<400> 12866

cttgttcttt gggattggag ctttgaaga gaagattgga ggagaggaga ggatcggaag 60

aagctgggtcg tgttcttctc ccttattggg cgcgcgtgtt gtgttggtgc ctgctgtgtc 120

tgtgtactcc agctgtagct gctgctgtgc ctagctgatt gaagttggaa ctgtagtggg 180

tccacagtat tatgcatggt ttgtttggtg agacgtcaaa g

221

<210> 12867
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-F6

<400> 12867

ggaattcccg gctcgagcca cgcgtcacgc gtcacgctca aagccaagcg acagcagcag 60
ctttcctagc aacaccttgc ccctgagctc atgggatccc tgggccccac agtgagcttg 120
agcatcatgg ccaggccagg cggccagcag ccggcggaga tggagaggaa gaaggacagc 180
ggtgtcttct tcggtggggg ctgcggttcc cggatgccgc tgcactaccg gcgctacaag 240
aaggcggact acgagagcat gccggagtgg cgcgtcgact gcctgctccg cgagtacggc 300
cttcccgccg acggcgacgt cgacagcaag cgccgcttcg ccatggggcg cttectctgg 360
cccgaccagt actgatccaa ccaaacaaag ctcagcgcta gctagctgcg tgccggccgt 420
gatctcgtca tatttagagg 440

<210> 12868
<211> 274
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-G2

<400> 12868

aaggaagcga gaagaccaga aggtgataag agagagagag agtgtgtgtg atcggtgcaa 60
ggatcaccgc tgtgcctgcg cgtgctgctt caccgaatcg agtcagatcc tgtccgaatc 120
cgagctaagg gatggcaacc ggtagtgaag cctcgaaggc agctgaggct gtggttgact 180
ggcataaaca cgacagcaag aggatgctcc atgcggttta ccgtgttggg gatctggacc 240
gcacaatcaa gtactacacg gaatgctttg ggat 274

<210> 12869
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-G4

<400> 12869

ttgagaccaa caagcaacat agaaagtgga atccagtagc aacaatagag caacagtgga 60
gaccaagata ttttccctcc ttatgctcct tgctctttct acatgtgttg ctaacgcgac 120
aattttccct caatgctcac aagctcctat agcttccctt tttcccccac accttccatc 180
aattatagct tcagtatgtg aaaaccagc tcttcaacca tataggcttc aacaagcaat 240
cgcagcaagc aacatacctt tategccctt gttgtgtcaa caatcgccag ccctatcttt 300
ggtgcagtca ttggtacaaa ccatcagggc acaacagctg cagcaactcg tgctacctgt 360
gatcaaccaa gtagctctgg caaacctttc tccctac 397

<210> 12870

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-G6

<400> 12870

ggattcccgg ctgcaccac gagtcacgcg tgcgggatgg ctttccacca ctctctgaat 60
tactgaggt gcttgctaag atctgggaga gactcaaaga agtgggagag aaatttgaag 120
ttgtagctgt atccttggac agtgaagagt catcatttaa tgagagtttt gcaaagatgc 180
cttggcttgc aattcctcaa ggtgacatta agtgtcagac gctggttcgt tactttgagc 240
ttagttctct tccaacacta gttctgattg gccctgatgg gaagacactg aacaacaatg 300
tcggcgacat aattgacg 318

<210> 12871

<211> 241

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-G8

<400> 12871

tgtaaagcct atatgatgtt gtattgaatt gaatcgatga ctgctttatg caagattctt 60
ttgtccaaga gtgactgctt tatgcaagat tcttttgtcc aaggggtttg tagttctcta 120

ttgttagtat caccttataa gatgttttag tttttctaaa tttttttta ctacacatct 180
 aaacataatg tacaagttac acaatacaag agtgactgct ttatgcaaga ttcttttgtc 240
 c 241

<210> 12872
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-H1

<400> 12872

eggattcccg ggctcgaccaa cgcgcccgca aagacactgt gtttaatttat gttcctgctg 60
 tcagatgctc aacaagaagc atacggtagc gcatacttgg cacatctgaa gtaggtgcag 120
 attggtgcat aaaaggcatc caggacatca gtagttatag catcctctca catctgacgc 180
 tttcaaaatg tcatctcccc atagttagaa cgaattcatc tcaagactgt aggtcctctg 240
 cttgagaagc atcctcaccg ctgtcctata eggctcctcg aatgcatcca acacccaggc 300
 tgcaccagca gccccattcc aaactgtgtc ccctgttctt tcctcacttg gcttgatggc 360
 cacaagcgtt gcgccattta gcaccagccc cccaggcagc tcaatacatg gtgcgtacca 420
 cagtcacatg ctaagctctg gcatgagcg 449

<210> 12873
 <211> 273
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-H2

<400> 12873

caaggctgcc aagaaggaga ggcttctgaa gagggcccag gctgagaatg aaggaagaac 60
 tggatgaatcc aagaaaccaa ttgttgtgaa gtatggcctt aaccatgtga cttacctcat 120
 tgagcagaac aaggctcagc tcgttgtcat cgctcatgat gtggatccga ttgaactggg 180
 tgtttggtt tcagccctgt gcaggaagat ggaagtccca tactgcattg ttaaaagaaa 240
 ggctcgcctt ggatcgatcg ttcacaagaa gac 273

<210> 12874

<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-H7

<400> 12874

ggaattccag gcacgaccca cgcgtcccca gagtgtcaca catctgatgc atatgtagac 60
gctaggaaca ctgatcaatg gctacggtea tatgttccat cttctcacia ggtaataca 120
agctgtcaca tcatccctat caagcagcat atgataaaac agtaagacat cctcgccgga 180
tggataatga acgaaacaac tacatggaga gccaaagtgg catacgtgat aataaccctg 240
aaaacgggtgc tgcaacctcc atgtgaacat gcattgcaac aagacttggt caatagacta 300
ctttggactt ttggtgaacg ctgcatgtac attctgttta caccctttca cagtgaactt 360

<210> 12875
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-A12

<400> 12875

tagaccactg atttcacaat gaaaagttag acaatgcctt catggctaga actgttgctt 60
gcaacacaat tctttacgac ttgtgctaac catcttcttg ctagtgcgaa tgaatgtaac 120
ctattttgca cccagtgtga gaccaaacca gctgctttct gtaactattg tcgttcaagt 180
gatcattcca cccaccgtgt aatccagata aggcgttcat cgtaccatga cgttgtgagg 240
gtgtccgaga ttgaggatat ccttgatgtc agcgatgtgc aaacttatgt aatcaatagt 300
gcaaggattg tattcctgaa tgagcggcca caactgcgtg cttctagtgt cccattttgt 360
aaggcaccca catcatcaac acatagctgt gagacatgta accgtgtgct acttgatgca 420
tttcgcttc 429

<210> 12876
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-D1

<400> 12876

ccggttcgga attccccggt cgtcccacgc gtccgatgct gctcatgctg gtcaagagtt 60

gattggcttg atattcagtg ataaggaact gtgggttgga agagcacaga agatgtatga 120

aagagagatg gagttgaagg agaaatttgt aatgaatgtt caagaggtag ctgagaagtt 180

gcaaaacaca tacttatatt tgaagaactt ataggtgaac atatttgatg ataaattgcg 240

tgagctcttt gatgattatg gtaatattac ttttctgcaa tgttatgctg aattctaattg 300

gggttatcag aggttctgga tttgttgctt tcaaactctgc tgaatatgct aaccgagc 358

<210> 12877

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-D7

<400> 12877

gtccggtccg aatccccgggt cgacccacgc gtaccgccag tgcacgacta gggttcagatc 60

ttggcgatcat gtgtttggca acgagccgga aagatggtag tccttagaat cgatcggttc 120

ctgagcgagc tgacgtgcat gttctagcgg agcacggaga agggctacgt atggatgacc 180

atgtagcgag caagtctcga gggcgaggca cagttgcgtt gagatggaga ataattgatca 240

ggaggttttag ctcaattgag tgattcgcgc ctccaatggc aagaagaata ttttcagctt 300

ggtttctcta attgagtaca caaagtttca agcttcatac gcaacagttc tta 353

<210> 12878

<211> 531

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-022-Q1-K1-E11

<400> 12878

ggaatttccg gctcgaccca cgcattccagg cgacgcgcgg acgcgtgggc tggacgctgt 60

gggacgcttg tcggcgagct gccttacaac aacgcaattg cgccaattgc taacaacaca 120

tccttggcac aaatctaacc ctacaaactc attgcaactg cacaacaaca acaacnagtt 180

tctgccatca cttgagnctc acctagccgt ggtgaacacc tgtcanccta cttgcaacna 240

gcagctgctt gcattccaac ccacttgctc ttggcgaacg tagctgcatt accagcaact 300
aacaaccagc ttgcaacagt ttaatgccag tgctcaagtc aactagctca tggatgaactc 360
ctgccgtcta cctttacaac tactttcann tctagcccg cttcgcggtg ggcaaatgca 420
acctaacgta cctatncaac aacagttgct tgcaaccaa ttgtaccaag ctctgactca 480
gnctagcttg tggcaaaaacc ctgcttgctt acttacaaca agttgctttc a 531

<210> 12879
<211> 145
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-E2

<400> 12879

agaaaaaaaa aataaaaaaaaa aaaatatttaa aaatgaaaaa aatgaagaaa aaaaaaaaaa 60
ggaagggcag acgatctaga ggatccagga ttacgtacgc ctgcatgcga cgtaataaaaa 120
attcaatagg gacaccgaaa ttcaa 145

<210> 12880
<211> 250
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-F12

<400> 12880

cagacaaccc atcattggtg gtgccctctt ttagatttat tattgaacta tgactcagaa 60
gaaagctaaa agagggcgcc cccactggtg cgaagcagcg tacgcgtggt tcgtacagga 120
aattccggac cggttccagg aggcgtgcc acaattccta tagtgagacg aataacacac 180
aaaactgcaa aactataagg ttgctatcta tctagtagtc acactactac tactacaaac 240
aatccctcta 250

<210> 12881
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-F5

<400> 12881

tggtttttct tgtcaggttg ctgaacgtgc tttgttcttg tggaacaatg atcatgggggt 60
aagcttgata gcacaaaatg gtgttggttat atttccaatt atatttgaag ctgttgagag 120
gaatatacag agccactgga atcaagcagt ttatgggtctc actgcagagg tgcgcaagat 180
gttattggac attgacagtg aactatttga agagtgccag cagcagtaca tggagaaaaca 240
agcgaaagcc aaagagatac atgaacaacg agaatcagca aggagacaat tggaagctgt 300
tgttgctgcc aaggctgctg 320

<210> 12882

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-G1

<400> 12882

tccacgcgtc cgtccacgcg tccgcccacg cgtgcggcag cttctgcttg ctctgggggg 60
aaggagagag agagagagcg agagagagat ctagtagaga ggctagtagg tggtccttga 120
acgaagatgt tggcgggtgtt cagcgggcat gtgggtggagg tgccggttga tctggtggct 180
gagggcagtc ggacgccgtc gtccaatacg aaggcgtggc atctggtggg gcgctttctg 240
gccgtgtccg atccggccgt gttcgagcag atcggcgacc actatcacct cgcctactcc 300
cacaccaacc aggcgc 316

<210> 12883

<211> 159

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-G5

<400> 12883

agccgggtcg accgacgcgt acgaagacat cgagtactcc aagcgcgctt ctaaggcaga 60
tgcaaagaca atgtccaggg atgaaccagg cagagtcaaa attgaacctg ttagctcaac 120
taaattgcaa ggccaagcag atcgcgtcca caagccata 159

<210> 12884
 <211> 131
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-022-Q1-K1-G6

 <400> 12884

 taccggaccg gaattcccag atcgaccac tcgtaccgcc cactcgtacg aaaaaaaaaa 60
 aaaataaaaa aaaaaaaaaat taaaaaaaaa aaaagagaaa aaaaaaaaaat aaaaaataa 120
 atatacataa g 131

<210> 12885
 <211> 360
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-022-Q1-K1-G7

 <400> 12885

 taccggtccg gattcctggg tcgaccacg cgtgcgaaaa catttcggtc tcatctacgt 60
 ccacattcgt cctccagcac tccagctgca tggacgagga ccgacgtagc gatatgcgaa 120
 gcaaggagcag ggagaggaac ccgaggaagg cgaaaatgat ctaccgcaac tggtcgctgc 180
 tctcgtccac gagcgtgatt tgggatagag tggtcaccgt cggcctagtc gggatcttgc 240
 tctggggcga gttggaggaa ttcagatggt atctgtgcct ggatggcgat aggcttatgc 300
 ggcaggacag agccgcggtg ggccgaagct aagcgttagc ttctttggta tctcaaggga 360

<210> 12886
 <211> 167
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-022-Q1-K1-H2

 <400> 12886

 ccgggtcgac cactcgtcc ggacacacta gcaatccaac tagcaccata tagtgcacac 60
 tatggctcca acaatggcag gcctaataat acgccttctt attatcgta gtgcttctgc 120
 aagtgtatt acggcgacca tcttgcagga ttgcacgcat gtccta 167

<210> 12887
 <211> 380
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-022-Q1-K1-H4

 <400> 12887

 tccacgcgtc cgcccttgcc catgccattg ctaatgagac tggcgtgccg ttctatgaga 60
 tctccgcacc ggaagtcgta tctggagtgt ctggagcatc tgaggaaaac atcaggggct 120
 tgtttcagaa ggcctatcgg actgccccct cgatttgtgt tatggatgag atagatgcga 180
 ttgcatccaa gagggagaat ctacaacgag agatggaact gctgatagtt actcaattaa 240
 tgacatgcat ggatcaattc caccagaata ttggatcggg aagtaacaat ttggaagctg 300
 aatcatctga aaagaaacct ggttatgtta ttgtcattgg agccacaaat aagcctgatg 360
 ctgtgatcca agctctgcga 380

<210> 12888
 <211> 286
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-023-Q1-K1-A10

 <400> 12888

 cgacccacga cgtcacgcgg tcgtcgactc gtaggtaaca ctgctatcga acaccctgaa 60
 ggcaatgatg tgacgggggtg ctctcagcat gatcaaagaa agcacccctgt gatatttgac 120
 gacagagcta aatgtacgaa gtctaaatta atttcctgag gtagtggagt tatattggag 180
 tcatattgga actttaagac aagtgggctg cctgtgcgcg tgcttttcta ccaacatggt 240
 aactgtgatg attttccaaa ggatgttgta aatcaagccc aacagg 286

<210> 12889
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-023-Q1-K1-B8

 <400> 12889

 tttgtgattc cagggacaac tgttattctt ggtgctgttg ctgtagcagt gttgggaagt 60

cgttgcaatg ctgttactgt tatgggtttta aatttggccg ccactccaat tgagctaagc 120
 ttgatcgccc ctttcttgcg tttgggggaa accatcactg gcagtgggca cttcccccttg 180
 acagccaacg cactgaagaa tgttctcact ggtcatgcat caaaggatgt gctgctgagc 240
 atcgtcaatg cgatgctggg ttggcttatt gctgcacat ttgtacttgc cgtgctgtac 300
 gctgggttcgt tcccttggtt caaggctctg gttaacaggt ttggcggcat tccatcgagc 360
 cccaggaccc cactcaaagc ggtgtaagta gtgtgtagca tgctgaatgc tc 412

<210> 12890
 <211> 403
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-023-Q1-K1-D11

<400> 12890

tccggattcc cggtcgacca cgcgtncggg ctttgcgac ctctctggcg cactgattaa 60
 tcggaggccc attcgtacag gtcacgggtg atggcaggcg gattctgtta accactaaag 120
 ctgggcgtgt tcatgtgcta gattcgtttg aaggaaacag cattgcatcg tttcgcgcga 180
 agccaatatt aaccaattcg aactggagg catcgttctg tcccaggga aaccatattg 240
 tatctggctc cggatgatgt agtgtctatg cttggaacgt tgagagcgga aaggttgcac 300
 gctgggaaaag cacagatgtg aaaccgccgc gggtaagggt gtctccagga tccttgatgt 360
 tcgtgacagg aacgtcngag ctgtcctgct ggggtgccga ttt 403

<210> 12891
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-D4

<400> 12891

acggtccgga attccgggtc gacccaagcc ttccgacttc ggcggccggc ctctcttct 60
 ttttaaccac acgtggtca taaaaatgtc ggctgcagag gcaaaggcgg cggcggtccc 120
 ggagtctgtg ctgcggaagc gcaagcggga ggagcaatgg gcagcggaca agaaggagaa 180

ggcgctcgcg gacaggaaga aggcgctcga gagccgcaag atcatcttcg cccgcgccaa 240
gcagtacgcc gaggagtacc acgcccagga gaaggagctt gtgcagctca agcgtgaggc 300
ccggttgaag ggtgggttct atgtgagccc agaggccaag cttctgtttg tggttcgcac 360
ccgtggtatc aatgccatgc accccaag 388

<210> 12892
<211> 354
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-023-Q1-K1-E10
<400> 12892

tcgcgcgcgc agaacacacc tgctcgggct ggattaggag gacagcttct tcgggcggcg 60
gcatggcgga cgagaagggc gcgcagcagt ccgataggga gtgggtggtc gaccacaagc 120
tccaggccgt cgggacgctg tggctcaacg gcatcgtctg cttgatcgcc tacgacagga 180
tcaagccgtg catgatgacc aacgtcaaga tcatccacgc caggctgcat gctcaggctc 240
tcacgtggc tgccttggct ggggtccgcg tggtggagta ctacgaccac cagcaagggt 300
caggatcgaa agttcaccaa tatgcaaagc agttcctttc atctgatagc aata 354

<210> 12893
<211> 326
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-023-Q1-K1-E7
<400> 12893

ttcgcgtccg cctcagcccg ccgcaaggag aggtaagttc aggagacatc ttcgagaagc 60
tgaaatggct cctaaagctg ctctgccaa gaagggtgat gccaagaccc aggccttgaa 120
ggttgccaag gctgtgaagt ctggggcagc caagaagaag accaagaaga tccgaacgtc 180
tgtgacattt aaccgcccga cgaccctgaa gaaggctagg gaccccaagt acccacgaat 240
cagcactacc ggaaggacca ggcttgatca gtaccaaatt ctcaagtacc cctttaccac 300
agaatcagcg atgaagagat tgaaga 326

<210> 12894

<211> 429
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-023-Q1-K1-F11

 <400> 12894

 cggattcccg gtcgaccacg cgtncgacca actgtctaca ctgaaccctg ctgcttattt 60
 gcagcaacaa ctattaccat ttagccagct atctactgcc tactctcaac aacaacaact 120
 tcttccattt aaccaattgg ccgaactgaa ccctgctgct tatttgcagc agcaaatact 180
 actaccattt agccagctag ctacagcaag ccgtgcttcc ttcttgacac aacaacagtt 240
 gctgccgttc taccagcagt ttgcggtctaa ccccgcaacc ctcttacaac tacaacaatt 300
 gttgcccttt gtccaacttg ctttgacaaa ccagcagcc ttctaccaac aacacatcat 360
 tgggtggtgcc ctctttttaga ttgcttatta gatgtaattc aataataaag ttttttggat 420
 gatgtatgt 429

<210> 12895
 <211> 380
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-023-Q1-K1-G1

 <400> 12895

 gacgggaatc aatggaagga acggggcagc ggcaccgtca agcttctcaa gaacaaggag 60
 accggcaagg tccgactcgt catgcgccag gccaaagcgc ttaagatctg cgcgaaaccac 120
 ctctgtggccc ccaccacgag aatgcaggaa catgccggca gcgacaaatc gtgcgtcttg 180
 cagccttctg actttgcgga tggcgaactc aaggaggaga tgtttgccat caggtttggt 240
 tcggtagaaa actgcaagaa gttcaaggag ttggttgaag agattgctga gtcacttaca 300
 gagaacgagg acaaggaagg tcaagatggc tcttccacgg ccggattgct ggagaagctc 360
 actgtgagcg agggcaaatc 380

<210> 12896
 <211> 178
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-G12

<400> 12896

taccggtccg ggattccccgc gtcgaccac gcgtaccttg acgcgtaga aagacatttt 60
tgatgttcat ggaatcactt ggaccacggc acgctaata tataaacttg tcttcttttg 120
aaaagcacat gcttaccact aatatcataa aacgagccaa gacgattgcc tttaaagt 178

<210> 12897

<211> 445

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-023-Q1-K1-G2

<400> 12897

tcgaccacg cgtaacgggcn cnagccagga ggcgggtcag gttacggtca ccgncaagac 60
tgctccagcc aagggagggc cacaagggc cgactcgtga tgcaccaggc caagacaccg 120
aacagatcga cggagtactt gtcctctcca tcgagaagct ccaggagata caggacgagc 180
tcgagaaggt aaatgaggaa gcaagtgaca aggttatgga ggtggagcag aaatacagt 240
agatccgcag acctgtctat ctcaagagg gtgacattat caagaccatc ccggactttt 300
ggctcacagc gtttatgagc catcctctat taagtgagct tctgactgaa gaaggaccag 360
agatattcaa gtacttagac tccattgatg tggatgattc tgatgttaag gcaggatact 420
ccattcatct taacttctct gagaa 445

<210> 12898

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-H1

<400> 12898

gatatcagag caaattaaag cacagttggt tgcataaat gattattgta caaattgaca 60
agatcaccgg ctaccgatg gagaaaaaaa acatatacta tttcagagaa aataaatccg 120
gacaaattga actttcatcg gcgcaaacia tcaactgggca tgcattgtcc atccatccat 180

ccatggtcct cggccaaca ctgaatctat ctatctcgcg gtttcgccgc cagagaagca 240
cccacaacag ctggcgaaga agcccgattc cttaggagca gcggagctgc cct 293

<210> 12899
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-B1

<400> 12899

ccgggtcgac ccaagccttc cgtgggtccac tgttcaagga ccgcaggaaa ttccctaaaa 60
tggctgatcc aatgcttcag ggccgcttcc ctatgagggg tctatatacag gccttagctg 120
ttgctgccat gtgcttgcaa gagcaagctg ctacacgcc tcacatcggg gatgttgtca 180
ctgctctctc atatctcgtt tctcaggctt atgacccaaa cggccctgtt caacacagcc 240
ggagcaacgc atctaccccc aggtccagaa accctgctgc atggaacggg gatcagcgca 300
gtgtgcgctc gcctaatacat caccattctc cagaccgcg gcggagggac cctgccaggg 360
catccaagta tggagcagag gttagcagga ctagctctgc cagcgattct ggccggcggt 420
caggtctgga tgacat 436

<210> 12900
<211> 179
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-024-Q1-K1-B12

<400> 12900

tcgtaccggt tccggaattc ccgggntcta cccacgcgtc tcggattttc tgccctcctt 60
ggccctcctt ggctctttca gncaaacnng ttgctaccgc gactatgtga ttccacgaat 120
ggctctnaca acaatnnacc tctcnntccg gtgaccagcn nccgcgagaat nnttgaata 179

<210> 12901
<211> 219
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-D10

<400> 12901
 gtctaaacct gatgaactag cagtcataata aactgttgtg ttggctgcga aatgtggagg 60
 cctgatgttg aacttgcaag gagataataa caaattatca gctttgcgcc tgtgcccagt 120
 ggaaggggct gtcttccaag ttattgtctg atatggaatt gttccagatt atcatgtctc 180
 ggcgtttacc cattattatt atttgatttg aaccttaaa 219

<210> 12902
 <211> 277
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-D2

<400> 12902
 tttctgggcc accaaacct aatcgggttg gcctaaaaac cggccgattg gcgattaggt 60
 agggggccgtt aaccaaagtc ctcgttggtt aaggtccagt ctagtaggag gcgcagagac 120
 ccatctgtat ggtcgctggg agatctatct tgacctcctt tttctgttct ttttggctctt 180
 agttatcgtg gttggattct atagcagcct tgacaggcat tcgaacaata atgtttatgg 240
 ttctcctatc cgctttggac tctaagcatg ttttccc 277

<210> 12903
 <211> 70
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-D6

<400> 12903
 tttttttttt ttttttggat atgttataat tttatttttt tttttttttt tttttttttt 60
 tttttttttt 70

<210> 12904
 <211> 438
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-024-Q1-K1-E3

<400> 12904

cggaattccc gggcgaccc acgccttccg gtggcggtct ttggcgggcc ccgaattgcg 60

tgtggccaac gagctcggcg cggccaacgg ggagggcgcc aggttcgcga ccatcgtgtc 120

gacggtgacg tcgctggtga tcgggctctt cttctgggtg ctcacatggt gcctgcacga 180

caagtacgcy ctcattctca cctccagccc cgtcgtcttc gacgccgtcg accacctctc 240

ggttctttct gccttcacca tctctctcaa cagcatccag cccatctctc caggtgtggc 300

cgtcgggtcc ggctggcaat ccatggtggc ctacgtcaac atcgggtgct actacctcat 360

cggaatcccc atgggcatcc tgctcggatg gctattcaac cttggcgtgc tggggatctg 420

ggcggngatg atcggcgg 438

<210> 12905

<211> 228

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-E4

<400> 12905

cagatttcac atcaaaccct gagagccaga ggaagcatgt caccatttgt ggcttttagca 60

atgttttcga aaagattatg atctgtatct tggaacctta tttcaatgga ccaaatttct 120

ttctttgcc aaaaaaaaaat ttggtggatt gacgttctgg aggatgcaag atatcgtacg 180

cttgcagca acgtaataat tctactatag gggcacctac attgaatt 228

<210> 12906

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-E8

<400> 12906

ggttcggaat acccggtcg acccacgct gcgccgaggt cgaaataagc tgctgcgggc 60

ttaccgtgaa ccctgggcaa cctgggcgcy gcttgggtga gcggtggctg agggttggcc 120

cggcgcgccc gctgcacacg gtgatcggct cctccggggg agattatgtg atggtgataa 180

gctatgggcy gcccaagtcc gcgtcctgtt aaaaccatat caccatcgac ggcctggcga 240

ggtcgattcc tagttcgaac aagggttggt gccgccgccg ctgccgccgc cggggaagag 300
 gccgtcgaca gataaactca agcagcggta gcgggctgct ctgccgcagc aactcgtcct 360
 ctcaccggcg tgttctttta agatctggtc gttcggtcgt tgggtgcata catgcacatg 420
 tgattgaagt cgctattaat t 441

<210> 12907

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-024-Q1-K1-F1

<400> 12907

ccaagccttc cgtggccgcc aaaccctgcc cctaagtttc ctatggccgc ccgttggtcc 60
 aagaccgtgt ttgcggctgt agcctcaaga ttccctggta aggctgttgg tgtaaactctg 120
 cctgcgggat cagctcctgc ggcagctgct cctgcggatg aagctgagga tgatgatgac 180
 cttgatcttt ttggtgatga aactgangag gacaagaagg cagctgatga gcgtgctgcc 240
 gctgccaaagg cctcttctaa aaagaaagaa agtggtaaat cctccgtcct tatggatgta 300
 aaaccatggg acgatgagac tgatatgaag aagctggagg aggctgtccg cagtgtccag 360
 atggagggtc tgacttgggg agcatcaaag cttgtgcctg ttggatacgg catcaagaag 420
 atgactatca tgt 433

<210> 12908

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-G7

<400> 12908

ccggttcgga attcccggct cgaccacgc gtgcgcggac gcgtggggtt tttatttttt 60
 tttttttttt tttatttttc tacgtgggtg gctggccaat tattccattc agacctgggg 120
 agcactgaag cacagaatca taaacatgca tgcagccgga gcgctatcat ggccatggtc 180
 aaggcttgat taccgcaatt cctttccata cgttgttcga ggcctaacac atgctttcgc 240
 ttcattgcac tctaacagtt gatcgctccc ttgacatttt aaaccgacac gacaacctaa 300

taacgccaat tacgtttact gcatttcatt tgaccagcta tgggatacca aacgactatc 360
 caagcctgaa agattctctt accaataaa 389

<210> 12909
 <211> 390
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-024-Q1-K1-H12

<400> 12909

ttcccgggtc gaccacggt cccgggatag cagccaagat actttgaagg tttgacaatc 60
 gccttggtca ctaggatccg tcttggttgt caaaccttca aagtatgtgg gatagcagcc 120
 aagatggatg ttaacgacca tgccgatcac caaggctcca aagccagtgg aatgccaacc 180
 aagacagatg ctaatgatca atgcagcaac caaggttttg ttacatgtcc ctttaagaca 240
 gctgagaggt tagatcatct tctgaaccaa ccagcaaaca gatactgtgc tgattgtggt 300
 gctccagatc caaaatgggt gtcaatgact nttggtgttt tcatttgcac caagtgttca 360
 ggagctcata gaagtcttgg agtacacata 390

<210> 12910
 <211> 422
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-024-Q1-K1-H5

<400> 12910

tttcatataa gcgaaatatt gcagcaattg aagggagtgt gtttggatct tgggcaccag 60
 agaggatggt atgggatcac attatttata aaccaatagc ggcaatgctt ggaggacgtc 120
 taagatttgt tctttgtggt ggtgcacctc tgtcaagtga cacacaaaga tttatgaata 180
 tatgtctagg tgtcccagtc ggtcaaggct atggattgac tgaaacttgt gctggagcag 240
 ctttcactga atgggatgat acaagtgtgg gtcgtgttgg tccaccactt ccttgtctgt 300
 atgtgaagct tgtctcatgg gaagaagggt gttacaagat ttctgattct ccaatgccga 360
 gaggagaggt cgtggttggt ggacacagta taacanaagg ttatttcaac aatgaagcaa 420

ag

422

<210> 12911
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-H7

<400> 12911

cgacgccacg cgtccgccga ctcttaccce cacactgcct catttgcatg gacttggcct 60
gcatctaggg caggatacag aatctcatgc catcacatta tctataaacc attaccagca 120
atgctcctat gacttccaac accagggcct ttgtcctcgc ccaccccggt caagctatac 180
accgactact atgaacatat gcctaagctt cacagtcagc ccaacttata catgaacagc 240
accttggggct cgagcacatt tcaactacac ggatactaca acttgtcgt 289

<210> 12912
<211> 237
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-A7

<400> 12912

ctcgtttcgg attcccgggc gactcaagcg tccggccgca tcaccttaac atactttgtc 60
gtctaatagc cgaactgggt taccagagcg atgtataaca tattctgttg acagaaaaaa 120
ctggtttcac caaaccaaaa gacaacatac tctgttgaca gacacgaaac tggttccaca 180
aaaacaaaaa agaggcaa atgtgcggcgaa gtaaataaca aaagggccat atgcaag 237

<210> 12913
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-A8

<400> 12913

aattcccggc tcgaccacg cgtacgctca cacgtccggt gctgctgcgc ttattggacc 60
tgctcgagcg gcacgcatag ggggtggtga cgctgtatac gtgggacaac cgcgatgatct 120

ggtcatgcct attggccgat gtcccatgg tgtcttcgat gcgtgcggta ctacaccggt 180
 tgggctgact agatccactg cctgattgca ccagtcgacg gcgcgcacca cgttcttggtg 240
 ctgcactagc cggtcggaat tgtcttacag atcatccctt ggatcttaca tcttctaattg 300
 ttcgactcga aggtcattc 319

<210> 12914
 <211> 438
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-025-Q1-K1-B1
 <400> 12914

aattcccggc gggacgccac gcgtccggga gtagcagccc aacagaccat gtgattagcc 60
 caccacctaa ggataacggc gacgggaatg gttcataccg tggcgacagc cccagaggga 120
 gggaagacag caggagccgc agccgcagcc catccggtgg taaccgcaac cctgcagcta 180
 atgggcgtag cccgagcccc aaaggtgacc gtggcccgag ccccatggct gaccgtagcc 240
 cgagcccaaa gggcaatggt aacaacgatg gtgggtgatga tgatactggc cgtggtggtt 300
 tccccacacg aagcaagtca ccctgaacgc ttcaccgtct caattcttag gtgcttcgtg 360
 atgcattggg caaacatacc aaaaacgttg atagctgttt cgtttccctt atttgaaacc 420
 ttggacttaa tttaactt 438

<210> 12915
 <211> 214
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-025-Q1-K1-B6
 <400> 12915

cgctcgcagt ttaatttagc ggtttaagtg tggatctgtg aaccccatgg cgccggttgt 60
 tgattcgtgt tacacgtgct atgttctgag attcatgatt aaaaataaaa aacaaaaaaaa 120
 aaataaaaagg gcttaagctc taaatgatcc atactttagt acgcactcat gctactactt 180
 aagtcttcta tagtgacaac taaatatcaa tgct 214

<210> 12916
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-C4

<400> 12916

ttcattcggt cccggcctca ccccgagcca gtcgtctcgc taggggttcg ccgcccgcgg 60
catgcctcgc cgcagctcag gaaggtctgc cccacgcccc gctccccgtg ctgcttcaact 120
gaggaacccg ccacagccag cagcgcaggc tcctcctcca gtcctgttc gagatggtgg 180
tggctccatg tttggaggaa ttgggtccac cattgctcaa ggtatggcgt ttggcacggg 240
tagtgccatg gcacacaggg ctgttgactc tgtattaggt ccccggaacca tccagcatga 300
gactcttgcc acagaagctc ctgctgctgc ccctgctgct ccagcgatga atgctgatgc 360
ttgcagcttc cattctaagg ctttccaaga ttgtctcaac aactatggca gcgagatc 418

<210> 12917
<211> 467
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-C7

<400> 12917

accggtctcg gattccccggg tcgacgccac gcgtccgaat acccgtgaga aataatgtgt 60
tgtgcgcagc cccgtccgtg atgctgtcga cgcgtggcta gtggtcgacg ccgcgcttcg 120
cgttttgccc gttcaacaaa acaccgagct gtgtggacaa cctatgtgac tagtctcggt 180
tcgtccagga ccgagagatg acgaccgtgc aagtgatgtg gtgccaacca caagatgcag 240
ttggtggacg acctgaagaa tggacttaac cagtggatgc tcgccaagcg agtaccctac 300
cacagcaaac actatctaag tgttaaatta aaggctactc ttaggatgat tggttgctgg 360
tgtgacttgg ccttcacccc tgccaccggg atagatggtc gagtgggtta ttgcttccgc 420
aggagaggac caggaggagt agcgtggcta ggcttcgcca tggtact 467

<210> 12918
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-D1

<400> 12918

tgctcagcga ctagctggat agaatcaggc gacactgtaa ggaaaaaggt gttcctgagg 60
aacctctctg ctcccttcat ttgtgagttc ttccgtgatg cccaagagaa ggtcctcccc 120
tatgtgact acatcttcgg caacgaaact gaggcaaaga tctttgccaa agtcagagga 180
tgggagactg agaattattga ggagattgct ttgaagatct ctcaacttcc tttggcttca 240
ggcaagcaaa agaggattgc tgtgattact caagggtgctg atccagtggg tgttgctgag 300
gatgggaagg tgaaaacgtt ccctgtgatc ctattgccca aggagaagct tgttgacacc 360
aacggcgcaa gtgatgcttt cgttggaggc ttctctcac agttggttct aggcaagggc 420
attgaagact 430

<210> 12919

<211> 137

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-D10

<400> 12919

gaattccccg gtggaccacac gcgtccgcc acgcgtccga ctcaatatag gacgtgaggt 60
acagcttcat caacacatcc tgcgggaagg tcaagatatt ggaacctcct taaggcttct 120
tgatgaatta tgaatgt 137

<210> 12920

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-D11

<400> 12920

ggattccccg tcgaccacag cgtacgcaac aaccgcagca ccaccaccaa caacaacaac 60
aacagcacca acaacaacat caagggtgaag gccacaaca acatcaccaa caatcacaag 120
gccatgtgca acaacacgaa cagagccatg agcaacacca aggacagagc catgagcaac 180
aacatcaaca acaattccag ggatcatgaca agcagcaaca accacaacag cctcagcaat 240

atcagcaggg ccaggaaaaa tcacaacagc aacaatgtca ttgccaggag cagcaacaga 300
ctacaagggtg cagctataac tactatagca gtagctcaaa tctaaaaaat tgtcatgaat 360
tectaaggca gcagtgcagc cctttggtta tgccttttct ccaatcacgt ttgatacaac 420
caagtag 427

<210> 12921
<211> 402
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-025-Q1-K1-D12
<400> 12921

ggattcccgg gtcgactcac ggcgcggtt tttttttttt tttttttttt tttttttttt 60
tttttttttt tttttttttt atgggtttgt tttctctttt gtttatattt ctatatattaa 120
atatttctaa aaaaacaacc aacccttttt aagaaccaa atttactaca ttaatcttaa 180
aaaataaaat gaacctataa ggttaccaa attcaattca attagccatc atactaaaaa 240
actattgact tacaaaaacc taaactaacc caacataatc accttttaaa acatatcaca 300
ttaaaaaact atttgaaacc caaaaagccc caacaaaag ccatttccaa tcattaaaca 360
acactaatc tgaaaggag catccctata tccttcata aa 402

<210> 12922
<211> 470
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-025-Q1-K1-D6
<400> 12922

accggtctcg gattcccgtt cgacgcagc gtcgggcgt ctctttctct atcgactggc 60
gacgactccg ccaccgagc cgtctctagc gaggggcca ggtcttcgcc aacgacgagc 120
atccgggtta gagaggaaga aattgcaacc gaaacaatgg cggcagattc cggcgctcgc 180
agacaaccaa gttcaccaa ggtcgaccag ctgcgcctg gaaccacagg ccacaacctc 240
atcctcaagg ttgttgactc caagatggc gtccagagag gccgagaggg agggccccag 300
ggaagacaga tgaggattgc ggagtgctt gttggtgatg aaaccggcat cattgtcttc 360

actgcaagaa acgatcaagt ggatgtaatt aggcctggaa caactgttga actgaggaac 420
gcaaagatcg acatgttcaa gggttcgatg cggcttgcag tggacaagtg 470

<210> 12923
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-D8

<400> 12923

tgcggacaca aattctacag gagttcgggt aagcgatttt aagcatgaac tctggggaga 60
cagattcaga cattgcaacg gttttatggg tagcctgcct gaagggtcgc cacctaattcc 120
ctgccgatcg gggcaatgct attctgggaa atgctatgct tgcacttgta ataactgccg 180
cttctctgac tgagcttcgt ttgcagctgc tggacttcaa tcatgccgct tctctgtgat 240
tgagcttcgc ttcccttttg ctgcagctac ttttcgtcgt acaagtgggt accaacagct 300
gcagtagatt tgggtgggtgt ttgcattcta agtactcatg gttagacgcc ttatctgaca 360
cttttataat gatc 374

<210> 12924
<211> 465
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-E4

<400> 12924

tcggattccc ggtcgacgca cgcgtccgga tatattcaac gggaaaaagc tcgaagtata 60
ttgttccttc gtcacacaac tgtgatgggc cgcattgtaa ccgtactgag tatcagctga 120
ttgatataat agaggatgga tttgtgagcc ttcttacttc agatggcaac actaaggatg 180
atcttagact cccaactgat gagactcttg tggcccagat caaggaaggg tttgaaagtg 240
gcaaggatct tgttgtgact gtccagtctg ctatggggga ggagcagatc tgcgcgctga 300
aggatgttgg cccaagtaa cttccctgcc ttggaatact gtatctcaaa acctaaatcg 360
aaaaaagaag tgtatcaagg attgctacag agacatccat ctggcttgag ctggcttttg 420
ctatgtcaaa cacaagtgca gggatcgctg ggtgttgac cgtgt 465

<210> 12925
 <211> 333
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-025-Q1-K1-E5

 <400> 12925

 gattcccggc tcgacgccac gcgtccggcg ggaagcaagg acaccgtggg gcagttcgag 60
 tcccacatcg cgttcactct tgctgggctc taccgtgtcg tccatggcat cgatgttttc 120
 gatcccaagt tcaacattgt ctcccctgga gcagacatga gtgtttacta cccgtatacg 180
 gaaaccgaca agagactcac tgccttccat cctgaaatcg aggagctcat ctacagcgac 240
 gtccagaact ccgagcaciaa gttcgtgctg aaggacaaga agaagccgat catcttctcg 300
 atggcgcgtc tcgaccgctg gaagaacatg aca 333

<210> 12926
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-025-Q1-K1-E6

 <400> 12926

 tgcaaggagt gtgatgtact cgtggaggta caagctttac agagagcact gcaagagtgg 60
 gtggcacaaa cacaactaca cacgccacaa gaatgggctc ccgcctctca gccaaaggga 120
 gtgtatggtg gagatggaat tggccgactc caagaaagac cttaaagact acgatttctg 180
 atgaggttac ctggaagtgc ctttgacatg ctatcttgta tttgggcact aatgttgtct 240
 gtctaagtct tttctaccac ccaatcttat ccaagatggt taacaagggg tgcacatggc 300
 atgaagttgt ttccaatccg tttttatattt aacgaggaag tgatgagtga ggcacatggt 360
 cgctttctga tgctgtatac gaattattag aatgagatgg tttagccaca tctttgaact 420
 gagggtagaa cctg 434

<210> 12927
 <211> 232
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-E7

<400> 12927

accggttttcg gattcccggg cgacgccacg cgtccgataa tatacagtta ggcaccgacg 60
ttggtcctcc ttgcgcttct tgccttaga gtgggcggca acaaatgcag ttgattatta 120
ccacagagca ttacttgctc catagctgca caggcttcca aaatctactc ctactcagtt 180
acattcaatg tcatcaggaa cattcatcac gtgcaagcac tacacagcta ct 232

<210> 12928

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-E8

<400> 12928

ttaccggctg gaccacgcg tatcgatgga tccatgtaac aactcgactt gttctatcct 60
cccacacac actgggatat gccggatatg aaaccaact gtgtatcacc taattcatat 120
atcaaactat ggatttagga gccctgttac ttcagatggc aactaactc atgatcttac 180
tactaccaac tgatgacact cttgtggacc atatcaacga agggttttta agtggcaaag 240
atcttgatgg gactgtacaa tctactattg ttgaagatca aatatgcgcg ctgaacgatg 300
ttggccacaa gtaacttccc tgtcttgaa tactgcatct gaaaaccta atcgaacaaa 360
taagtgtatc aatgattgct acagagacat acatatggct tgagctgcct gttgctatgt 420
caaacacaag tgcaaggatc gctgggtgtt gcac 454

<210> 12929

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-F1

<400> 12929

cggacgcgtg ggaggacagg ggctggttct ggtgggagaa gttcaagtcc tacaagtatg 60
atggcaggag cgaggagttc taccgtcttc cttatggctt gagcaggtag ttcccctcgc 120
tctaggacgc cgggaggaag acgacggacc caagttctat gtagctgctc gagcgtagaa 180

gctgaacatc agttgaaggc aacagaacca tatgttattt tcatatatca agcagttggg 240
 agggagcttg atgttttgat ttaccttgta aaacattttg gatgataaac ttttgcaatt 300
 actgggagag taggatcaac caggggagaa ttctgcaaca attcagtcac cgtttttgc 360
 tcagattcga aacagaacac agatgccttc acaggcttcg attaa 405

<210> 12930
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-025-Q1-K1-G5
 <400> 12930

tttgagcatt cagaaacaca cctagcgata cgcactacca acgacctaac aacagtgggt 60
 accaagatat tatcgcgtctt tgcgcttctt gccctttttg tgagcgcacc aaatgcgttc 120
 attattccac aatgctcact tgctcctagt gccattattc cacagttcct cctccagtt 180
 acttcaatgg gcttcgaaca cccagctgtg caagcttaca ggctacaaca agcgcttgcg 240
 gcgagcgtct tacaacaacc aattgcccaa ttacaacacc aatccttggc acatctaacc 300
 atacaaacca tcgaaacgca acagcaacaa caatttgtag cagcactgag ccaactagct 360
 gtggtgaacc ctgtcgcta cttgcaacag catttgcttg catccaacc acttgctctg 420
 gcaaaca 427

<210> 12931
 <211> 374
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-025-Q1-K1-G8
 <400> 12931

tgcacaaac cgtggcactg tgatggagtt gggattact ccaattgtga cctgggggggt 60
 ggtaatgcaa cttcttgctg gatcgaagat cattgaagtt gacaacagtg tgagagagga 120
 tcgtgctctg ctgaatgggt cacaaaagtt gcttggtatc ttgatcgcta ttggggaagc 180
 tgtggcatat gtctgtctg gaatgtatgg tactgtaagc caacttgga caggtaatgc 240
 tattctcatt atacttcagc ttttctttgc tggcatcatt gtcactctgct tggatgaact 300

ttttcagaaa ggttatgggt tgggatctgg tatctttctg atcattgcta ccaatatctg 360
 ttagaatatc atct 374

<210> 12932
 <211> 157
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-H10

<400> 12932

tttttatcaa aatgcaaagg cctgtattag acaacgattt gtgtacatac agacactaca 60
 accaacaac atataatacc atttattgta catatcacat atataagacc tacatcatcc 120
 atattttcta tactcatacc tatgacatta attttac 157

<210> 12933
 <211> 318
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-H11

<400> 12933

cccgggtcga cccacgcgta cggagcattc agaaacacac caagcgaagc gcactatcaa 60
 caacctaaca acaatggctg gcaaggtatt atccctcctt gcgcttcttg cgctttttgc 120
 gagcgcaaca aatgcgtcca ttattccaca atgctcactt gctcctagtt ccattattcc 180
 acagttcctc ccaccagtta cttcaatggc cttcgaacac ccagctgtgc aagcctatat 240
 gctacaacaa gcgattgcgg cgagcgtctt acaacaacca attgcccaat tgcaacaaca 300
 atccttgga catctaac 318

<210> 12934
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-H7

<400> 12934

tccaaatctg acgaggagac tactgcaa ataggaaattgg ctaaggagct gggtgatgga 60

tggagtcgac caatattcaa caagagcacg agatttgagg acatgaagag atatgatgat 120
gaaagagcac cttacaggcg gccacaaatg aagaaacctt catcgagtag ctctggaatg 180
gaatccagag atgatgatct tgatgctgac ttttcacaac gcaagtctgg gcaaagtagt 240
tcaaggcagc acgcttctag gccggaagcc tcgcctttgg actttgtcat tcgtccacag 300
tccaaaattg accctgagca gatacgggct cgtgctaagc aggctgtcca agaccagcgt 360
cggctgaaga tgaacaagaa attgcagcag ctgaaagcgc ccaagaagaa aaaccttcag 420
gcgtcgaagc tc 432

<210> 12935
<211> 312
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-026-Q1-K1-A3

<400> 12935
attccccgggt gggcccacgc gtgcgaggca ntcgcagctg gcattcttacc tttatcaccc 60
ttgatcctcc aacaatgggc aggccattta cagcagtaac ctttggatcc tatcgggttg 120
aagaatcggg ttttcacata ccgaagacac cgctggtgag aggtacgggtg gaagaaggga 180
agctatagga gcttgtgagc attgcgggaa aatggtcgcg gtagcagcac ttgcacaaag 240
accaaggagc ataaggaggc aaaatatattt ggctgccatt gttggtacac tattgcgctt 300
tctatgttgc ta 312

<210> 12936
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-B10

<400> 12936
cggaattcca gctggaccca cgcgtccgag gacgcgtagg cacttatgca ggtattgaaa 60
gtgatcagta actcatcttg caggacggga gtcaaagtcg ggctctattc agtgggcatt 120
aacaaacgac atgtatacac caaacgcgag ctgactcatg gccagtacca cacaaaaggt 180

atagcatcca agaagccgta ctatcgatcat ttcactaatc acagaggata acaggaatag 240
 attttatcat aagcgctca tcacactaac taagggtgct actgacaatc cacatcagat 300
 cattgccact agaaacattg ctactaaca ca 332

<210> 12937
 <211> 452
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-026-Q1-K1-B11

<400> 12937

cggtttcgga attcccgggt ggcacccacg cgtcacggct agctctgcaa gcttgaatca 60
 tgtgcggagc accttggtt acgatccttt ggtacgcgag agaggacaag ggtcaactgc 120
 gcctttttac ttcaagattg gggnottgct gtcattggga tcgctgttct cgtctgcaca 180
 acaggccaac tatatcgcca actcttgtgc ttgctaacat gtatcagcgc cctgatatga 240
 taactcctgg agttgatgct caaggccaac ctattgatcc tgagaagatg caggagcatt 300
 ttgaggactt ctatgaggac atctatgagg agttgggcaa gtttggtgag attgagaatc 360
 tgaatgtttg tgataacctt gctgaccaca tgattgggaa tgtctatgtt cagttcagag 420
 aggaagaaca ggcagctgca gcatacaatg ct 452

<210> 12938
 <211> 223
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-026-Q1-K1-B4

<400> 12938

ccggcgggac ccacgcgtgc gagtgcacaa ttatgctgnc taataaaaaa tatcttgggc 60
 atctattcta cagggtccga gcctacacac taaaagacac gaatcgacat ctcttactg 120
 cagagacccc actcagaata ctaagcctac tcttacacct ccaagaccta cacaacctg 180
 gcttacacca tctaatcaa cttctacatc atctcaata acc 223

<210> 12939

<211> 271
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-026-Q1-K1-B8

 <400> 12939

 ccggtggacc cacgcgtccg ctgcccctgc tctctggacc tcttctcccc caaacaccgc 60
 agagatgcag aagggtaggg gccaccacac cttgacggcc gccccgtcgt cggcgccgtc 120
 caagggcaag tcgtcggcgc cgaaccctag cggcaaccac gctgcgacgc cggcgccatc 180
 ggggacgcct tcaaagggca agtcggcggc agcgcaggcc gcggttttgg gccacggttc 240
 ctctctccac caccactctg ccggcggtgg c 271

<210> 12940
 <211> 288
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-026-Q1-K1-C12

 <400> 12940

 ggaattccca gctggaccca cgcgtacgac gaacagactg ctctgagcgg cgtcaatgtg 60
 gataggaatg taatcggacg gatatgactg gttccatgtt tgttttcata ttttctcatt 120
 gatattaatg caaatattat cgagttgggc aaaaaaaaaa aaaaaaaaca attaaaaaaaa 180
 aaaaaaaaaa acaaaaaaaaa aaaaaaaaaat aaaaaaaaaa aaaaaaaaac acaaaaaaaaa 240
 aaacatataa tctaaaaaaaa aaaaatcaca gcacgtatca ttccaaca 288

<210> 12941
 <211> 324
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-026-Q1-K1-C2

 <400> 12941

 gaattcccgg cgggaccac gcgtgcgctc cttgtcaata agaagaaaca gaggttatct 60
 tagcttttgt gaccgcatgg gaccgcacct gaggcaatcg ttctgctgga cagaggctct 120
 agtttgttgg gctagtaaat gtaatgttat cttaggtggt acttactaat cgggccagta 180

atgttgaatt ctagctggaa cgcggtaatg tttgatgcac cgaagtcgct tgcagtaggt 240
 tccgatggcc caagccacca aaaacttggt tgctccatga acctcgcaat cctgttaggt 300
 gataatataa tatacattgt gttg 324

<210> 12942
 <211> 222
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-C3

<400> 12942

cggttcggaa ttccgggctc gacccacgcg tgcgccacg cgtccgtcca cgcgtccgcc 60
 ctgcgtccg ccgacacctg gtgccgggct aggttctaata gagagtaggg atgcacactg 120
 cactggagac tgcgtagctg ctcaatttga acacaaccac taccgatgtg gactaaacgt 180
 gccatatcca agaaaattgt caaaccagcc ctacaagtct ca 222

<210> 12943
 <211> 455
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-D10

<400> 12943

ccggtctcgg aattccgagc tggacccacg cgtgcgaatc gccagcccta tctttggtgc 60
 agtcattggt acaaaccatc agggcacagc aggtgcagca actcgtgcta cctctgatca 120
 accaagtagc tctggcaaac ctttctccct actctcagca acaacaattt cttccattca 180
 accaactgtc tacaactgaac cctgctgctt atttgcagca acaactatta ccatttagcc 240
 agctagctac tgccactctc cagcaacaac aacttcttcc atttaaccaa ttggccgcac 300
 tgaaccccg cgtttatttg cagcagcaaa tactactacc atttagccag ctagctgcag 360
 caaacctgtc ttccttcttg acacagcaac agttgctgcc tttctaccag cagtttgcgg 420
 ctaaccccg aacctctta caactacaac aattg 455

<210> 12944
 <211> 304
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-D9

<400> 12944

```

ttctcttctt ccccatatac tctcacctgc gttgtcttca gtctgtgaaa aggcaatggt    60
taaaccctac aggatccaac atgcaatcac aacatgcac ttacctttat cacccttggt    120
cctccaacaa tcatcagccc tattacatca cttacctttc gtgcatatat tggcacaaaa    180
catcagggta caacaactac aacaacttat gctaacaaac cttgctgact acgttcagca    240
acagcagcta cctttgggtgc aatagctgtc acaatacatc atggcacaac aactacaaca    300
actc                                                                304

```

<210> 12945

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-E11

<400> 12945

```

ggaattcccg gctggaccca cgcgtacgcc tactcaaccg ccccggcctt agccttatcc    60
ccagccacac ccatgcccgg gccaaagagcc gtatccaagc ccgtgccaga tgcacggaac    120
ctgcagcggt tgcagcaccg cgatcctggg ccagtgcgtc aagttcctga ggcacagtg    180
cagcccgacg gcgacaccct actgctcacc taagagccag tcgttgctga agcagtggtta    240
ccagcagctc acgcaggtgg agcctcagca ccggtaccaa gcgatctatg gattggacct    300
gcagtccatc ctgcagcact agccgcaaag tggccaggtc gctgagctgt tggcagctca    360
tatagcgcat caactgactg                                                                380

```

<210> 12946

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-E12

<400> 12946

```

aattcccatt tcgacctaga cctacgcctg cgtctgaatc gtgaacaacc gttgtcattt    60

```

catgtgtcgt accccgtgca atgcggtggct gcgcattgggt gattttctctg tggcaaaactt 120
cccgtactgc atgggggttgt aagctgtctc taaatttcac ggcaagtcac gtgcctgaac 180
cttcatctta agttgttgtc gtatcccttc gtcttgcttc ggttgacccc cgtgatggta 240
tggattggct gctgaccact tgatctaacc aaaagtaaaa ct 282

<210> 12947
<211> 189
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-E3

<400> 12947

aattccccgc tagaccacg cgtgcggggc accaatcgag agtcgggtgc agcatgagcg 60
tggtaatcat aggtcgcagc gtggctgctt cggtcgaaaa tcccgaccat cctatctatg 120
acatgttcgc acatccatct ctgcatggta cctcttcttc agatactcca tactctctca 180
ccacctaata 189

<210> 12948
<211> 240
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-F1

<400> 12948

aatcagtagg cctgaaaccg tacttccatt tacgtggcta cgcgagctga tttgccggtc 60
tgctctctcc atctgtatcc tggacatggc agtatggtca cgaagtccag atggcgatat 120
gcctgactgc cggtaacgga gggcagctgt ggtgtagtat atctcagtc catgggagggc 180
gtagataat ttttgaccaa atgttataaa ataagacact attaaatagt ttttttatat 240

<210> 12949
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-F10

<400> 12949

gctcgacca cgcgtgcgt gcaagaaact ggatgtctac gccatggctg tatacaaagc 60
 agaagcttgt agggcccggtg acagtgaaca gcaccgacgt ttgatgctcc atgacaacgc 120
 cgtacagtcc ttgacgacag gcgaaactta catgtgtgga ctagctataa tcgtgccgcg 180
 ctccctcttg atgaaactgt acccgcaaca ccgactcttg gtcagctgac catccgcctt 240
 gttccttaac tggtcacctt tagcaggact acagctatgc attagacctg cgtttgctac 300
 aagatgttca actagtgcac gtacatgtat atggatgccc acctcgcgta cgcgccaggta 360
 tgttcaattc acagaggaaa cacaatagca tgtatgcagt gtttttctta ccacacata 419

<210> 12950
 <211> 309
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-F3

<400> 12950

cccggctaga cccacgcgta cgcgcggaca accagctttc cggggacatt cctccgggga 60
 tagggaacct gaccgattgg caggtgctgg atatgtcgaa taaccgattg ttcgggtcag 120
 tgctgcctg acttgcaacg tgcttccagc ttatggacct gcagcttctg gggaaccagc 180
 tctttggggc actccttccg gagctagacg cactatctag tctcacggtt ctagatttgt 240
 ctaataacaa gatctctggg gagattcccg tagcgttggc tgggtacacg tctttggagg 300
 tcgatgact 309

<210> 12951
 <211> 64
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-F6

<400> 12951

cccacgcgtc cgcccacgcg tccgaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaaag 60
 aaag 64

<210> 12952
 <211> 323
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-G1

<400> 12952

attccccggt ggaccacgc gtgcgcgtt ctctccccc tccggttccg gttcgggtcc 60

gagaggttct ccggagggcg ggggcgtgcg tgagcgtatc gagatggcgg cgtctgatgt 120

tgagataccg cttgattgtc cgccgtctca cctgtgccac ggacgaccac tctctccaca 180

acgccttttag cacctacagt gaggtcctcg actccaagat catcctcgat cgggagacgc 240

agatgtaccg cggcttccgc ttcgtcacct ttttcacggg agacgcgatg cggaacgcc 300

ttcgagggca tgaacggcaa gga 323

<210> 12953

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-G2

<400> 12953

tgctcctagt tccattattc cacagtttct cccaccagtt acttcaatgg ccgtcgagca 60

cccagctgtg caagcctata ggctacaaca agcgattgcg gcgagcgtct tacaacaacc 120

aattgccccaa ttgcaacaac aatccttggc acatctaaca atacaaacca tcgcaacgca 180

acagcaacaa cagttcctac cagcactgag ccacctagcc atggtgaacc ctgtcgctta 240

cttgcaacag cagctgcttg catccaaccc acttgctcta gcaaactag ttgcaaacc 299

<210> 12954

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-H12

<400> 12954

cgccacgcgt ccgttgcaag attgtctcaa caactatggt tatgcgatca gtacgtgcc 60

gctgggcctg gtcattgtga acgagtccc tcgcgttggg ggcctgtct aagctgtct 120

ctagcattat tcatgcgatg ctgttttcga atgggtatct cattaataag acacctatga 180

aactactacc atatacacac cttgaaacca aactttctga gattcattac cttctgatat 240
cctatgctga tggaacatac tctggactct tcaccattca tacttacacc atcctgtgat 300
cttggagtaa caactttctac tttggcgacc gttctagatg atccaacctt acgtacgcat 360
ccatgcttaa tgctacctct tctatactgt cacctaaatc taattcaata gc 412

<210> 12955

<211> 75

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-026-Q1-K1-H4

<400> 12955

accgtccgga atccccgggtc gaccacgcgt ccgcccacgc gtccggnncac tcctttcggt 60

tagctcagcc ggacg 75

<210> 12956

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-H6

<400> 12956

cgacgccacg cgtccgtcca cgcgtccgaa taaaaacagt ttcaagggtca tccttaaagg 60

aaggaaaagg aagggtgtggg agagtatcat gggcactatt ggaccacatg tactcatagt 120

tgatgacacc tttgttgatc gccttggtggc atctcgagtt ttgaagactt gtaacattca 180

agtgacaatg gtggagggcc caaagcaagc cttagatttt ctagatgtgg agaattgatgt 240

aaatttgatt ctgaccgatt attgtatgcc tggatatgact ggatatgatc tcctaattgga 300

ggtgaaggaa tcaccaaagc tgaagcacat gaggagtatt ggtcatgt 348

<210> 12957

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-A1

<400> 12957

aagcaacata gaaagtggaa tccagtagca acaatagagc aacaatggcg accaagatgt 60
 tgtccctcct tatgtctcctt gctcttttcta catgtgttgc taacgcgaca attttccttc 120
 aatgctcaca agctcctata gcttcccttc ttcccccata ccttccatca attatagctt 180
 caatatgtga aaaccagct cttcaaccat ataggcttca acaagcaatc gcagcaagca 240
 acataccttt atcgcccttg ttgattcaac aatcgccagc cctatctttg gtgcagccat 300
 tggtaaaaac catcatggca caacagctgc agcaactcgt gctacctttg atcaaccaag 360
 tagctctggc aaacc 375

<210> 12958
 <211> 442
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-027-Q1-K1-A4
 <400> 12958

cgggtccggaa ttcccgggtc gacccaagcc ttccgaggac ccttggaaatg gggtgcgatg 60
 ccccgatttg attcctaagg tccaggtcct cgggagattg ccttcccaaa tacctgttgt 120
 ccttaagggc aggggttaaac cgacctatcc ccacttgctc aaaaatggag acatgtgcat 180
 tgtacttaat gcacaggata tcagtgttac atgaaggaaa atgaccgata agatttacta 240
 ttggcataca cggtatgttg gccatttgaa ggaaaggagg ctcaaggacc agatggagaa 300
 agacccaact gaagtgatcc gcaaagctgt gttgcgcatg cttcccagca tcatactgcy 360
 tgatgatagg gatcgcatgc tgaggatatt ttctggaaac gaacatccat tccatgaccg 420
 ccctatggaa ccttatgtga tg 442

<210> 12959
 <211> 329
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-027-Q1-K1-B5
 <400> 12959

tagcaacata gaaagcacia tagtgtacca acaatggtag ccaaaatatt ttgcctcgtt 60
 atgctccttg gtctttctgc aagtgtgct acgacgacca ttttcccgca atgctcacia 120

gctcctatag cttctcttct tccccatac ctctaaccag cgttgtcttc agtatgtgaa 180
aaccaattc ttcaacccta caggatccaa caggcaatca cagcaggcat cttaccttta 240
tcacccttgt tctccaaca atcatcagcc ctattacatc aattaccttc ggtgcattta 300
ttggccacaa aacatcaggg cacaacaac 329

<210> 12960
<211> 162
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-C1

<400> 12960

attgctgcca ttcaaccaac ttgctttgac aaaccaaca gcattctacc aacaaccgat 60
cattggtggt gccctctttt agatttctta tgagttatag ttcaataata aagttttttg 120
tctgatgttt gtggcttccc agaaataaga aagtacattt ct 162

<210> 12961
<211> 277
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-C9

<400> 12961

tcgatactat ggttggactt gtgaatgttg tttccatact ggatgttagg ttttatatgc 60
gccctacggt gacctgccgt taaggcaaag aacttatttg caagtctgag cactattttg 120
gggggtgggg tggggggtgc gttgttttta taactgtctt ttttccata gttggaagtt 180
ttcttactca attgaatgaa cgagggaact tattgcatac tatcaaagt tttgtgatat 240
ggtgttgagt aattatcaac accttgatt ttaaaaa 277

<210> 12962
<211> 444
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-027-Q1-K1-D11

<400> 12962

eggattcccc ggctcgaccca cgcgtgcgnc cgacgcaacc cttgcgtggt ggcgtcacca 60

cccaaattccc accatccgga tctggggagc cgccgtcgcc atgtcccgct eggagcgccg 120

tctcgctcgc gccgtgggtgc gccttcccg cgcgtccagg gtctccgtct cgccatcccc 180

gcgccgacgc tcccagtcct cateccccgc cgccgacgc cgccgcgcgc accgctcccc 240

gatcccttac cgcgatcgct ccccaagtc atatcgagc cgtcgctgtg accgatcccc 300

gagcccttac cgcgatcgcc ggcaccgctc cccgagccct tatecgatc gccgcgcga 360

gtggtcaccc taccacaacg accgcggccg ggaccgtgac egggtctgc cgtccgtag 420

cggcagaggc gcctgggtccg atga 444

<210> 12963

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-027-Q1-K1-D3

<400> 12963

accaacccgt ccgtagcacc atagaaggca cattagtgt ccaacaatgg cagccaaaat 60

atttggttcc gtggtgctcc ttggtcttcc tgcaagtgt gctaccgcaa ccattttccc 120

acaatgctca caagctccta tagcttccct tcttccccca tacctctcac cagcgggtgc 180

ttcaatgtgt gaaaacccaa ttgttcaacc ctacaggatc caacaggcaa tcgcaacagg 240

catcttacca ttatcacctt tgttctcca acaaccgtca gccctattac agcagttacc 300

tttggtccat ttggtggcac anaacatcag ggcacaaca ctacaacaac ttgtgctagc 360

aaaccttgct gcatactctc agcaacatca gtttcttcca ttcaaccaac tggctgcatt 420

gaactctg 428

<210> 12964

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-E2

<400> 12964

tcctaatcca agcaaattgg gcgtccgagt ttctgactga tgaagatata accgaagggc 60
 acggatacca gcttaacgtc gacagtgtta cggacttgag gcttgagatg gcctttccag 120
 ctcaaccagt ctgttgacaga cttgtagctt tgggtgtaca tagtttatcc ttttttcat 180
 agggtagaaa ggaaagcgta attatccttc gcaaaagctg ttaactgtgt attgaggcag 240
 cttatgtcaa tatgtactat acctgttggt atcgattgtt ttaatgattc aaggcatttg 300
 attggtaaaa aagatgcaac 320

<210> 12965
 <211> 116
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-E4

<400> 12965

attccccggt ctacccactc gtcctctcac acttaatcat acacatcatc attatatata 60
 aaaaaacaaa aaaataaata aaatggaagt ttttaaaaaa ttataaaaca tctaata 116

<210> 12966
 <211> 150
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-F7

<400> 12966

ttccccggtc gacccactcg tcctccact cactactaaa cacacaactc ttttatctaa 60
 atcaataatt aacatactgc tgaccatcac aactatttaa ttaactctta atcaaatata 120
 atctacatac aacaatacaa acaatcaata 150

<210> 12967
 <211> 254
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-F9

<400> 12967

cggacgcgtg ggatctaggt ttaccacctt ttcccattgc gtatgggtctc tgctgggtgaa 60

gttgaaaaat aatgtatctg aaattattca cagtgccttt cttttcgaga tagcaaaatg 120
 ttgtgaagag atttcaccca atcaatgaaa gaaaacatgt atcttggtga tggctatagt 180
 ggtttgaaaa caaatcggtcc ataaaaaaaa aataaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaacaaca aaaa 254

<210> 12968
 <211> 263
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-G4

<400> 12968

ggaattcccg ggtcgacctc cgcgctccgct tggctaaaga actacttccg tgatctgata 60
 tctaccccag agttcaaata actagggggg agtccgaatc ctatgtatct cttcaagaca 120
 ttagtgatgg gaatctaacc ttattgttgt gttgtgggta ggccagccaa ggcgcctattg 180
 cttgagaaca acagcttggc aagtgacaat gtgcaatatt gccagaagtt ctttttgaag 240
 cgccataatt attctcctac gtc 263

<210> 12969
 <211> 395
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-H12

<400> 12969

ggtttcggaa ttccgcgggt gcgacccacg cgtcgcgccc acgcgtcacg aatccatctt 60
 tactatctcg tggtaataag gcaagcttga gcatcggtcc ttatggcggc gatgaagagc 120
 agcacaatgg tcacccttct attggctgtt gccattctgt cctcactgtc ttcattgctac 180
 gaagccggcg gctgcattcg taaacacact aagtcaccag tcgccgcoga gaatgccata 240
 cttctcggtc tattccgagg agcaccagaa ctgccgcttg atctgtaact ccaagggttt 300
 caaggacagt ggctgttgtg acgaaagcgt ggagcacaaa gtgtgctgct gctcccatta 360
 gaaatataat agcctatggt aagttgatgc atata 395

<210> 12970
 <211> 237
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-028-Q1-K1-A4

 <400> 12970

 cccacgcgtc cgtaccgcac caacccttg tgggcgtctc ccgttgcat tccgcctac 60
 tgctgattca tgatattggg gaaaactcct ctatccatct ctctctatct atatatgtaa 120
 taatgcagta agacgacaca cattatcatg tgtggatga ccaataatat atgcatggtc 180
 ataataaagt tttggtttta atgaatctat cggccgcttg atgtctatga tggacaa 237

<210> 12971
 <211> 142
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-028-Q1-K1-B5

 <400> 12971

 tgtttgttt ttatTTTTT ttttttTgtt tttttttttt tttttttaa attttttttt 60
 tcccgaaaaa aattttgtct ttcacaaaa tttttggact ctaaccgcga tatctatctt 120
 ctactcaca gagttttttt tt 142

<210> 12972
 <211> 385
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-028-Q1-K1-B7

 <400> 12972

 ccggtttcgg aattcccggc tgcgagccac gcgtccgagc tactgcctac tctcagcagc 60
 tacaatttct tccatttaac caattcaccg gactggaccc ctgtgcttat ttccagcagc 120
 aaatactact accatttggc cagctagcta caacaagccc cgcttccttc ttgacacaac 180
 aacaattgct tccgttctac cagcaatttg tggctaaccc cacaaccctt ttacaacttc 240
 aacaattgct gccctttgtc caacttgctt tgacaaaccc aacaaccttt taccaacaac 300
 acatcattgg ccgtgccctc ttttaaattg cttattaact gccattcaat aatgaagttt 360

tctggcttga tgtatgtagc ctcct

385

<210> 12973

<211> 446

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-028-Q1-K1-C1

<400> 12973

cgggtccggaa ttcccgggtc gacnacgct cgcgccacg gtccgcccac gcgtccggaa 60

ttaccggtgt gctataccaa agctgaacaa ggaaattgtt cctgagaaat gtaagggtgt 120

ggtgaaacca accaggggtg ttgttactct tttcaagggt tctaaaggca actgggttaga 180

cttgcacttc aaggaagaca agttcaagcc aaacatggac aaggaaaaag atccgatgtc 240

aggaattatg gacttaatga agtacatgta cgaggagggc gacgaggata tgaagcgcac 300

aatagccaaa gcttgggtctg atgccaggtc tgggaagacg actgattcga tgagcggatt 360

acgttgagct ggtataatca gttgatgggc ttaagttttc tgcgctagcc cctgcagccg 420

aagtgtttct gatggttcan atagcg 446

<210> 12974

<211> 375

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-028-Q1-K1-D1

<400> 12974

tgaaatgctc gcaagggttg gtggagatag tcacgccaga tccaaccca aaggggctga 60

cctttgaaac cgggggttcaa atggtgggga ttaagaacca attggttgtt gaagggaagg 120

ttgccccaaat gtccctttcc aagaaattgt tgaaaaatac ataacctatt cctaacttga 180

tgggggtccc aaaaatcctt gatgccgatt ctagacaaga ataacccatg gttatgcttg 240

aactccgncg tgaatccctt tcatggccaa ggggttcctt attgcagtaa ggcatataga 300

gtcaatcatc cggatgtcgg aggcacatgc aaggatgcat ctgangagct acgtgtctca 360

ggaagatgtt gacat 375

<210> 12975
 <211> 62
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-028-Q1-K1-D11

 <400> 12975

cggacgcgtg ggaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaggaggg 60
 aa 62

<210> 12976
 <211> 354
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-028-Q1-K1-D2

 <400> 12976

acgcacgcgt ccgtgggata ctcgcaagggt ttgtttaga cagtcactcc agatcccagc 60
 cgaatgcggc tgtacgtcta atacagggtt gtgactgatg tggatgatga tccactggct 120
 gctgcacagc aagctgaccc agatgtcctt tccaagaca tgctgaacaa atacataacc 180
 tatgctaata tgaatgtgtt tcccaaaata catgatgcc atctagacaa gattaaccat 240
 gtttatgctg aacttcgtca tgaattctct catggccaag tagtgtctat tgcaataagg 300
 catatagagt caatgatgag gatgtctgat gcacatgcaa cgatgcattt aaag 354

<210> 12977
 <211> 64
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-028-Q1-K1-E1

 <400> 12977

aaagaaaaaa aaaaaaaaaa aaaaaaatTT ttaaaaaaaaa aaaaaaaaaa aaaaaaaaga 60
 gggg 64

<210> 12978
 <211> 60

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-028-Q1-K1-E11
 <400> 12978
 cggacgcgtg ggaaaaaaaa aacaaaaaca cataaaaaaa aaaaaaaaaa aaaaggaagg 60

<210> 12979
 <211> 404
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-028-Q1-K1-E6
 <400> 12979
 cccacgcgtc cgcccacgcg tccgaagcaa catagaaagt ggaatccagt agcggcagac 60
 agagcaacaa tggcgaccaa gatattttcc ctcttatgc tccttgcctt ttctgcatgt 120
 gttgctaacg cgacaatttt ccttcaatgc tcacaagctc ctatagcttc ctttcttccc 180
 ccataccttc catcaatgat agcttcagta tgtgaaaacc cagctcttca gccctatagg 240
 ctccaacaag caatcgcagc aagcaacata cttttatcac ctttggtgtt tcaacaatcg 300
 ccagccctat ctttggtgca gtcattggta caaacatca gggcacagca gctgcagcaa 360
 ctctgtgtac ctgtgatcaa ccaagtagct ctggcaaacc tttc 404

<210> 12980
 <211> 414
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-028-Q1-K1-F11
 <400> 12980
 ttctgcgctc tccaccgccg ccgcagccag cgtcaccgga gggatctgcc gtctcccgtg 60
 ctccacgcga tgaacaccga catcaccgcc tcgactaagc cggagtaccc ggtggtggat 120
 cggaaccggg ctttcaccaa ggtggtcggc aacttctctg cgctcgacta catgcgcctc 180
 tccaccatct ccgccgtctc cgtcaccggt ggctacctct ccgggatcaa gccggggatc 240
 cggggcccgt cgatggtcac gggcggcctc atcgggggtca tgggaggggt catgtacgcc 300
 taccagaact ccgccgggcg cctaattggga ttctttccca acgacgccga gggttgcgcgc 360

tacaagcaca agcttcattg aggatccagc tccattccgt ctctcttttc gcaa 414

<210> 12981

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-G1

<400> 12981

cccacgcgtc cgccccacgcg tccgcccacg cgtccgtagc aacatagaaa gcacaatagt 60

gtaccaacaa tggtagccaa aatattttgc ctctttatgc tccttgggtct ttctgcaagt 120

gctgctacga cgaccatttt cccgcaatgc tcacaagctc ctatagcttc tcttcttccc 180

ccatacctct caccagcggt gtcttcagta tgtgaaaacc caattcttca accctacagg 240

atccaacagg caatcacagc aggcatttta cttttatcac ctttgttct ccaacaatca 300

tcagccctat tacatcaatt acctttgggtg catttattgg cacaaaacat caggggcacaa 360

caactacaac aactcgtgct agcaaacctt gctgcttacg ctcagcaaca gca 413

<210> 12982

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-G5

<400> 12982

tattgagacc aactagcaac atagaaagca caatagtgtg ccaacaatgg cagccaagat 60

atthttgcttc cttatgctcc ttggtctttc tgcaagtgtt gctaccgcaa ccattttccc 120

acaatgctca caagctccta tagcttcctt tcttccccca tacctctcac cagcgggtgc 180

ttcaatgtgt gaaaacccaa ttgttcaacc ctacaggatc caacaggcaa tcgcaacagg 240

catcttacca ttatcacctt tggttctcca acaaccgtca gccctattac agcagttacc 300

tttgggtccat ttggtggcac aaaacatcag ggcacaacaa ctacaacaac ttgtgctagc 360

aaaccttgct gcatactctc agcaaatca gtttcttcca ttcaaccaac tggctgcatt 420

gaactctgct gcttat 436

<210> 12983
 <211> 176
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-028-Q1-K1-G8

 <400> 12983

 gtgggttatta tattttttttt aattattttt attttttttt ttaatttttt tataaaaaaa 60
 aaaaaataaa aaaaattaaa ataaaaaaaa aaaaataaat taaaaaacat atattacata 120
 aaaaataact taaatatatc aaaacttaat tattaaacca tataacttaa aaaata 176

<210> 12984
 <211> 451
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-028-Q1-K1-G9

 <400> 12984

 taccggtctc ggattcccg gtcgacgacg cgtccgatct gcccttgccg ccgactgctc 60
 actcctctcc ggtccgctcc actccgaatg gccggcacga agcagacggc gcgcaagtgc 120
 accggcgcca aggcgcgcgc gaagcagctg gccaccaagg eggcgcgcaa gtcggccccg 180
 gccacgggcg gcgtgaagaa gccgcaccgc ttccgccccg gcaccgtcgc gtcgcgcgag 240
 atccgcaagt accagaagag cacggagctg ctcatccgca agtccccctt ccagcgcttc 300
 gtccgcgaga tcgcgcagga cttcaagacg gacctgcggt tccagtcgtc ggcggtggcg 360
 gcgctgcagg aggcgcgcga ggcgtacctg gtggggctct tcgaggacac caacctctgc 420
 gccatccacg ccaagagggt caccatcatg c 451

<210> 12985
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-028-Q1-K1-H11

 <400> 12985

 tagcaacata gaaagcacia tagtgtacca acaatggtag ccaaaatatt ttgcgtgcgt 60
 tatgtctctt ggtctttctg caagtgtctg tacgacgacc attttcccg aatgtctaca 120

agctcctata gcttctcttc ttcccccata cctctcacca gcgttgtctt cagtatgtga 180
aaacccaatt cttcaaccct acaggatcca acaggcaatc acagcaggca tcttaccttt 240
atcacccttg ttccctcaac aatcatcagc cctattacat caattacctg tgggtgcattt 300
attggcacaa aacatcaggg cacaacaact acaacaactc gtgctagcaa accttgctgc 360
ctacgctcag caacagcagt tacctttggt gcaattgttg gcacaaaaca tc 412

<210> 12986
<211> 467
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-H5

<400> 12986

accggtcgga attcccggct cgcccacgcg tccgacctac tgtacatata agtacttttg 60
atggccaacc tgtctcccat atgaggtggc ctatttatgc tagacggcct gtctgtgagt 120
actgcttcct aaaccgtaaa tccgctcatg ttacattcag ctatccataa taccttcaag 180
attcacatat tgccatgaac agattccata tgcagagacc tgattatgga ggcctataac 240
atcccattgg attgcagcat tcagacacca ccttaataag gttctactta ggcaacatcc 300
agaaccgtca ttcttttgag aagcctggga cgattaacga ctcaagctat gaatactctt 360
tacctgcgac gacttgtgct cacgatatga agcagctatg ctccacaagc agtctttcgg 420
tgatgtacat ggagctcttg catagagtag tgtatgtggc aattatc 467

<210> 12987
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-H6

<400> 12987

accacgcgt gcgcccacgc gtccggaagt ctgctgactg ctatagcttc attcaaaagg 60
aagaaggaaa gaaaaaactc aacggttaca tcataaatga tccctcacag actgttcctt 120
gttctgctct gaataaaagg ttggagtgat ggttctcttc ctaggtagtc ggttattatc 180
tccaggggat ctttatcttt ctttttttcc tttttgaatg aagctataga aggtctgctg 240

actgtctcga gatatttact tttcgtaaca gactgataag tctgatcttt gagccattct 300
gttttccgac gtcatttggt tgaccattta gttaagctgg aatacaaaag atatcgctaa 360
c 361

<210> 12988
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-B7

<400> 12988

cggttcggaa ttcccggctg gacccacgcg tgcgtggaag ccaaatcaag aggtgatgat 60
gtcttcagaa gaaaggacta ccttgtaggg gggcatgctt atacgcaggc tacagagttg 120
gacccaactg atgcaacagt gctctcaaac agaagcctgt gctggctgcy ggcagggcaa 180
gctgagcgtg ctctggagga cgccaaagca tgccgtgcat tgagaccaga ttgggcgaaa 240
gcctgctaca gggaagggtgc ggcgcacgt ctgttacaga ggtttgagga agccgcaaac 300
gccttctatg aggggggtgca gcttgagccg gagaacacgg agctcgtcaa cgcattcacg 360
gaggccatcg aagccgggag gaagttccat ggcgtgaaca cgccaaactc aacacaatga 420
gactttgctg ataggggtgga taggtagatg atg 453

<210> 12989
<211> 199
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-B9

<400> 12989

gaattaccgg cccgacccac gcgttcgcag ggcagccga cggcgacgcc ctacttgtct 60
tctcagtgcc agtcggttgcg gcaaagttgg tgccagcagc tcaggcaggt ggagccgcag 120
caccggtacc aagcgatctt ctgcttggtc ctccagatca tcctgcagca gcagccgcaa 180
aacggacaag ttgcggggc 199

<210> 12990
<211> 80

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-029-Q1-K1-C11

 <400> 12990

 attccccgggc tcgacccacg cgttcgacaa cccgttcaag aactccttcg agatcggggt 60
 cgcaaccctg gtgaactaca 80

 <210> 12991
 <211> 95
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-029-Q1-K1-C3

 <400> 12991

 ctgtcgattt aaaagatcct agctttccta cgcgttcatt cgacggcata gctcttgat 60
 actgtcacct aacaataatt cactccccgt ggctg 95

 <210> 12992
 <211> 441
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-029-Q1-K1-D2

 <400> 12992

 cgcgtccggc gcgtccctc actctctcc gaaccatcgt tcacgtcca gcctccccgg 60
 acttggggca gaagctgcag cgtcgagatg gtgaaggggc gcacggggca gcgcgtgagg 120
 ctctacgtcc ggggcaccgt ccttggatac aagcgggtcca agtcgaacca gtacgagact 180
 acgtcgctgg tgcagatcga gggggtgaac accaaggagg acgtcgctg gtactgcggg 240
 aagcggatgg cctacatcta caaggccaag accaagagca gcggcaccca ctaccgtgc 300
 atctggggca aggtcgcccc cccgcatggc aactccggcg tcgtccgcgc caagttcagg 360
 tccaacctgc cgccggaatc catgggccgt aaggtcaggg tggtcatgta cccagcagc 420
 atctaaagat aatctgaatg t 441

 <210> 12993
 <211> 423

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-029-Q1-K1-D9

 <400> 12993

 gaattcccg ctcgacccac gcggttcg cgcgtgggc ggacgcgtgg gcggttcgcg 60
 tgggcggacg cgtgggggtca ccaacggaaa gtgcaccaag aaatccatcg agaggccgctc 120
 gacaggggaa ttaatggcgt cgtcgtctag cagcagccac cgccgcctca tcctcgcagc 180
 cgccgtcctg ctctccgtgc tcgcggctgc cagcggcagc gccgggacct cctgcgtgcc 240
 ggggtgggcc atcccgcaca acccgctccc gagctgccgc tggtagctga ccagccggac 300
 ctgcggcatc gggccgcgcc ttccgtggcc ggagctgaag aggagatgct gccgggagct 360
 ggcggacatc ccggcgtaact gccggtgcac ggcgctgagc atcctcatgg acggcgcgat 420
 ccc 423

<210> 12994
 <211> 409
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-029-Q1-K1-E10

 <400> 12994

 gaccacgcg ttcgaacacg cacaccacct caccatacac ctcttctctt ctaccagtag 60
 ttcattcatt aggagtgcgg taccgggttg gagtaattaa aaggccaccc tccactcgca 120
 ccaccacact ttagctcccc actgctatag gcagcccaca tgcgcgcaca ctccctaagct 180
 agctatagca gcaaggcagc cagctgagct cagagctccc agtccagcgc cggcgccacc 240
 accgcagctg ctcgctggtc accatgagca aggagaagca ccaccgcgac tggatcctcc 300
 ggcgctgctg cggctccatc accgactgca tactgaatct atgcatatct gtaagcttga 360
 tagggctgat aatgtaccta gcgctgcccc cttcaagcc gaacttcta 409

<210> 12995
 <211> 451
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-029-Q1-K1-F10

<400> 12995

ggaattcccg gctcgacca cggtcggca acagccatcc ttagtgcac tgtatctcca 60

aagaatcgcg gcacaacaac tacaaggaca gttgctacca acaatcaatc aagtagttgc 120

agcgaacctt gttgcttacc tcgagcaaca acagtttctt ccattcaatc aactagctgg 180

ggtgaacctt gctttctact tgcaggcaca acagctacta ccatttaacc aacttgctcg 240

gagcccttat gccttcttac tgcaacaaca gcttctgcca ttccatctgc aagctgtggc 300

aaacattgct gctttcttga gacaacaaca tttgttgcca ttttaccac aggttggtggg 360

aaacattaat gccttcttgc aacagcaaca attgctacca ttctaccac agaatgcggc 420

aaacatttgt gcctttttac aacaacaaca a 451

<210> 12996

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-F12

<400> 12996

cggattcccg gctcgaccga cgcgtccgat caaaatcact ttgcgtgcag catcgattgg 60

gtcggaaatc gacggtttgg taagcgagag cgccgccggt gacagctgac agggacgaga 120

tggacgccgg cggaggcggc gtcttggtcg ccgttctctg catgctgctg gtcttcgcca 180

tcttccccct cctcctctgg cgccgtcgtt ccgatgccgg caccgccgat aaccaccgcy 240

tgccggccca gcccctccac gaggatcagg tgctgcacgg tcgctcgtcg gcgcgacgga 300

tgctcgggag gcctgggggt gccggagcaa gctcctctac tgcgtcaact agccccaatg 360

ctgtagaaga cga 373

<210> 12997

<211> 205

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-F3

<400> 12997

cccacgcgtt cgggtaattc agccgtatgt tgctatgctg gttgagattt actcgtgagc 60

cagagttttt ctatcttata tcctgaattt gttatcccaa agtttcctgg ctttttaact 120
 attttgttgt tacatgttga tattgctttg ttcaaaaaaa aaaaaacaaa aaaactacaa 180
 aaaaaataaa acgaaaaaca tatac 205

<210> 12998
 <211> 63
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-F9

<400> 12998

accactcgt tcgggtatga ccaataatat atgcatggtc ataataaagt tttggtttta 60
 atg 63

<210> 12999
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-G12

<400> 12999

tcccggtcgc acccacgcgt acgatgtggt tgacatggag acggtgtcaa tcgagaacct 60
 cagacggctg ttcatgtaca gaaggagct gcctctgatt gtcccagaca tcatcttcag 120
 tgcgtatgat ttccacatca aatgactttc cacgctacct tcccgacgac cttcagccag 180
 tgcccagctc cagttaatct tatgccccca tgctctccat tttcatgctt tgctcaagct 240
 tttggaagtg cctgaactga tttggaaccg caagccttcc agtgggtgctt tagaaacttg 300
 tttagtgcct gcatgcatcc ctaatcatat gcagacactc tgtacatatc tgacttggct 360
 cagataatat gggac 375

<210> 13000
 <211> 345
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-G6

<400> 13000

gggttcggatt cccggtctga cccacgcgtg cgcccacgcg tccgctctgg gcagcgtgcg 60
 cacgtgggggt acctagctcg ctctggtagg ctaccatggc tgatcaccac cgggggtgcga 120
 cgggaggtgg cggggggtac ggcgacctcc agcgcggggg cggcattgcac ggcgaggcgc 180
 agcagcagca gaagcagggc gccatgatga cggcgctcaa ggccgcgacg gccgcgacct 240
 tcggcgggtc gatgctgggt ctgtccgggc tgatcctggc cggcaccgtg atcgcgctca 300
 cggtgggcac ccccggtgct gtgatcttca gcccggtgct ggtgc 345

<210> 13001

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-H10

<400> 13001

tcccggctcg acccacgcgt acgggttggc ttctactacc cctgcgggtc gggttcgggt 60
 tcgtgaggct ctccgggttg ggatgcgtgc atgaccggat cgagatggct gcatcagatg 120
 ttgagtaccg ttgattcgct ggcgacctca cctggggcac ggacgaccac tagctacaca 180
 acgccttcag caactacggc gaggtactag agtccaagat catcctcgat ccggagactc 240
 ataagtccgc cgattatgct acgtcacctt ctccacggag gaggcgatgc ggaacgccat 300
 agacggcatg aactgcaagg agctgga 327

<210> 13002

<211> 388

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-029-Q1-K1-H3

<400> 13002

cggaattccc gggtcgaccc acgcgntccg tccacgctgt acanttggac accagacgta 60
 ctatgtctcg agagcggaga tatcatccat ctatgggagg acaacatgcg cctagtccgt 120
 tcaatatcat tatgcagctc caagttccta tcgcatgatg ttcagactgt tagacgaaga 180
 accgctgata ttgtgatagt gaattgggtca gatgaaaatg ataagctatt gcaacaacac 240

atcacatata cattgcctat tacatgctgc tatgaagatg ctaactatga gtggatcaac 300
atcagccact gctctgtag agctttcgta gacctgtaag aaacgaaggc agcatcagct 360
gatcatggac cactgactgaa atctctct 388

<210> 13003
<211> 81
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-H4

<400> 13003

aaaaaaaaa aaaaaaaaaa aatttaaatt aaaaaaaaaa aaaaaaaaaa aaaaagaaaa 60
ggaaaaaaaaa aaaaaaaaaa a 81

<210> 13004
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-H7

<400> 13004

cggaattccg ggtcgaccca cgcgttcgtg attcctctga tgctgaggct gcacaagctc 60
tacgtacaga ccaaagacgg ggctgcgaac cggtttgcatt agttgtgggt tctcacgtta 120
accctagtga ctctatgggt gatacttgat cctatttttt gctagaagct ttgcattga 180
cctgtcaacc cgctaggtca cgcctgggtg catgtgcttc tgggccttaa cttataccat 240
gcggacacac tgctaattgg ttgttagtct cagcagcgca tgctgctagc acgaatcccc 300
ttacctgttg gaaatctggc ttacgtcatg gcacagaaac ca 342

<210> 13005
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-H8

<400> 13005

tatgcattgg tttggccagg atacagtaca gccctccta gctgtaggtt gcccatggag 60

catgaagcgc ctccggtggt ccattagagg ccaaaaactg aatcaaccac agtgtactat 120
gtaagtcttg cggattgact actcgggtgc attagtttgg cagataatct taaagaaggc 180
tatcatgtgg gtgcaagaaa cattcacatt catatacatc agctgcggat taccgcgtac 240
cgcgatgggt tcaggactca gggagaatgc tcattgtgac caatctccag caacgtcata 300
tatatccggt ctttaacagtt ttctctaaaa gtttttgtcc tctatatctc ttctctcttc 360
aacaatgttc tctatctcgt tctctataca taaatacata tgttctatat acataaatgc 420
atatgttaga gatatatattt gg 442

<210> 13006
<211> 416
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-030-Q1-K1-A12
<400> 13006

cggaattccc gggtcgaccc acgctccgct gaataatatt tccacaatta acacggactt 60
agatattgaa gcctctggtg gatacgatga tgacctgatt gccagactgt tgaagctcgg 120
gtgttgcaaa aataaggaaa tagctgttaa gacagtcaaa accatcaagt tcttgggact 180
acatgaagag actcaaatac ctaagggttg ttcgagccca tttgatgtga tttgccagcg 240
aatggaacag aggatggcct atggccacaa tgagcaagac atggtactgc tccaccacga 300
agtcgaggtg gaatacccg gacgggcaacc cgccgaaatg caccaagcga cgctactgga 360
gttcgggaag gttgaaaatg gcagggtccac cactgccatg gcgctgaccg tcggca 416

<210> 13007
<211> 382
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-030-Q1-K1-A5
<400> 13007

tagcaacata gaaagcacia tagtgtacca acaatggcag ccaaaatatt ttgcttcctt 60
atgctccttg gtctttctgc aagtgttgct accgcaacca ttttcccaca atgctcacaa 120
gtcctatag cttcccttct tccccatac ctctcaccag cgggtgtcttc aatgtgtgaa 180

aacccaattg ttcaacccta caggatccaa caggcaatcg caacaggcat cttaccatta 240
 tcacccttgt tctccaaca accgtcagcc ctattacagc agttaccttt ggtccatttg 300
 gtggcacaaa acatcaaggc acaacaacta caacaacttg tgctagcaaa ctttgctgca 360
 tactctcagc aacatcagtt tc 382

<210> 13008
 <211> 320
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-B2

<400> 13008

cccacgcgtc cagccacgcy ttccgtttga ggccaagcgc gccaaagagca aggctaggcc 60
 tgagaagaaa atcgctagga aggaaggaaa gttggcccaa ggtccacgag aaataacacc 120
 acctgtctaa tcacagctcc aactactggg gcaccgaaga aagcaaagaa gtgaagtatt 180
 gaaataaagc tgtagctttc tagtccagta ctgcactttc ttttataagc tctagtcaaa 240
 ttttggagcg cctgaactgt tttgctgtta tataacttag tgtattgata aattcgacta 300
 tcacatctgg attattctaa 320

<210> 13009
 <211> 204
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-030-Q1-K1-C2

<400> 13009

ggaattcccg ggtcgaccca cgcgntccga aacacatacg aacacgcgta taaaatttta 60
 acggaagaag ctaaaaaaaaa ccacaggggc ggtaacgcat ccaggttaag taaccagggc 120
 tgccgcttta aaggatccaa attaagtcag ccatacttac gacgttagac ctctgttata 180
 cgagcgcacc taaaattgaa ataa 204

<210> 13010
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-C7

<400> 13010

taatgttggc gctcttttaa gcatagatga gagcctaatag tgttcatttc agatcctgaa 60
gccaaactgat atgggtccac cgcattgcaag aaaacaaatt ccaaataagc caacaagagg 120
gtgaagcctt ggaccagcat ccaatacttc cagttccagt atcatgatga tcgtcagtca 180
gctcaaaggg ggtgatctgt tgtttggata gttggatcca ccagggcctg acattagaca 240
tccatcagcc aattaatccc tttagccacc ctttactcgt gtcttgggag gcggccttggc 300
tgtaaaggat attctgtaca gcatttagtt ggattcaaca catcatctgt tttactggtc 360
ttcctgccgg caagggacct cattggcagc atgacataca atagat 406

<210> 13011

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-D11

<400> 13011

tccggaattc cggtcgacca ggcgtcgcca ccgtccgccc accgtcgcg accgtggcgt 60
gcggagcacg acggccaggg cagaccacag ttccgggccc ctgcttcgcg gtcaactggc 120
cacatctgca aaaccaggg tccccggcg gcaggtgccg cggcttacgc gcgatgttct 180
gacacaacac tgccactgat tcgtcgccag cggcggctgc gtcgcatcat cgcgccgtag 240
cgaccagacc attctcatgc atgaataaca aggcgtgccg ttgtgatgcc aaatgatact 300
atcgtcagag ccgaacgggt atcgagctca actat 335

<210> 13012

<211> 143

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-D9

<400> 13012

ggaaggggaac ccgggcatag cattctctct gtttatttaa acttctttca tctcgctggc 60
ttggttaatt tgtactattg gtggtttgta agattggctt atgtgattca atttatgcgc 120

ctgccgctgt tgatactgca aaa

143

<210> 13013
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-E10

<400> 13013

tcccggtcg acccactcgt ccgagaaggt agcaatgtcg tgaagcgtac gtgaactgga 60
aacggatgga caagtatatg tgcagggtga tgtggtgttt ccggatcgtg tgtttgtctc 120
agatgaaaaa tatacaatat tttgagtcca agttaatcaa tgttccattt gcctatactg 180
agctcaattt gctaggtcgc atgttccatg taattactat atctgcctat atcaattttc 240
aagctctttt agatgtgctt aatacttaac cggctcaacc tcatctacat gctaagggac 300
ctcttttctc agtacccaat cttacgcaag tgccaatcgc actgcatatc t 351

<210> 13014
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-E11

<400> 13014

cgaccacgc gtacgtcttc ctgcccaccg ccacgcgcc tcttacgctc tgcgctgcca 60
cagcctcacc ccggcgcccc cgccgattca cgtaggcctt tgttggaagg aacgatggag 120
cagaccttca tcatgatcaa gcccgacggc gtccagcggg gcctgatcgg cgacatgatc 180
agtctccttc gagaagaaag ggttctacct caaggggatg aagctcatga acagtgagag 240
ggccttcgcg cagcagcact acgctgacct ttacgacaag cctttattca ctcggttgaa 300
cagatacatt atgtccggcc ccgtagtggc gatggtgtga gaggcgaatg acatcatgtt 360
gactggccgc aggatcattg gggccacca 389

<210> 13015
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-E8

<400> 13015

caggatgcgg ctctccttcc cccttgtegc cggcgccgtc gtgatcggag tgattggtgg 60
gaatgttata tttggggccac cgcttcagaa gtactgggca gagaagcagc agcaagaggc 120
agcaaaagaa ggccaagctg gttcaacctg acaaaatgtc ctccccttct gcagttacac 180
ggagaaatgt gtactcctcg gtectgaact agcatcggct tttgttagca ttggttacat 240
ttagttgccc aagtttttgg cgctggaaga agacaccgtg caatgcacag aaagatttga 300
aaaacgttta aatgctgggt gatctcattc tgaaatacag tacctttgat ga 352

<210> 13016

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-F1

<400> 13016

cccacgcgtc cgcccacgcg tccggagagg gtctattcta gaaaggagg agtccaagaa 60
cttgttcttg gtctgtacat tatcaggggt gacaacataa gcgttggtgg cgaggttgat 120
gaagagctgg attcaagatt ggatatgtcg aagctaagg cgacccact gaagcctgtt 180
attcactgag gtccgagtat gtctttgggt aatatgtgga ctggatggat gggtcactgt 240
tgaatgcagg atgtagcatc atcatggtga ggggactgag taatatggac atgtatcttg 300
cgtattgtgc aatgaatgtg ttggctgttg ggtcgcttgc ctacgcattc tgtaagattg 360
cagttaccat taggaactga 380

<210> 13017

<211> 416

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-030-Q1-K1-F11

<400> 13017

ggtcgaccca cgcgttccga agaatcattc tggatgcatt tctttcaagg gccatctatt 60

tttacaaggt ctagcggcat ggtncctact accaaatgtg ccctgccct gagcacgttt 120
 tgtccccctt aaaaactagg aacagaatta gaacctattc tcttcttgcg gggttccacg 180
 gacgggcgac gaatatgggt aaaaccaaag aacgtatttg ctttgctgcc ttcacatcac 240
 gatgcgagg acggctaggc cgacggctga gatcgaaaca atgggtaccta tgcagtactt 300
 gatgacatcg tactttgctg cctacaactg ggccttcagt gagtggattt ccttgtaag 360
 ctttggtgta agctcagtgg tttcctcatt ctgctcggca agctcatcac gtatgc 416

<210> 13018
 <211> 374
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-F12

<400> 13018

tccggaattc cggggtcgac ccacgcgtac ggggttaacg ggcacgggat atgtgcggat 60
 cggctaggaa atgatgcggg tgaccgcgga agatctgtgg ctcaggcgct gcagatgcta 120
 ggctgatgtc aatgtgccat gtctgatgtc actctgccgt agcagccact gcggtaccgg 180
 tggttgcttc ctaggcccta tatacattca atgctcgcta taacaggagt atgctgtcgc 240
 gacagtgtat tgatgcgaac gacgctgcgg accattgctc ggacaatgct acaaggaaac 300
 agagtgtatt atcatatgat ctgatactgc cgcccaacac ggaacagctg agcctggcgg 360
 tcattataga gata 374

<210> 13019
 <211> 398
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-F2

<400> 13019

tcccgggtcg acccacgcgt tcgcggacgc gtgggtctac acaccaggag ggtgcatatg 60
 ctagtatgct gggcaacctc gcaggggcag acaagaaggg cactgtcatt cttgtgcacg 120
 caaactttgt cccaatgtt gacaccttgc ttgaagcaaa catgggcatt tcccagacac 180
 cttcaagaat ggtggtgcct gaaggcctct gtggtgccat tatgccggtc acaataacct 240

gggacaggta gctgcataac tcaacaattc gacacggggt ggcatcatgc cttgggaact 300
 tgctttcata aggatcggtg gacgccaagg ctcaagcggc gacatgcttg gcccaactgt 360
 tacagtacac gattgcgcta ctcaagttaa aaacgcca 398

<210> 13020
 <211> 209
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-030-Q1-K1-G10
 <400> 13020

ccgggtcgac ccactcgtcc gaaaacaaaa aaaaaaaaaa aaaaaagaaa aaaaaaaaaag 60
 aaaaaaaaaat aaaaaaaaaa aaaagaaaca aaaaaaaaaa aaaaaataag aaaaaaaaaa 120
 taaaaaaaaa aaaaaaaaaa aaatcactaa aaatcaaaa tacaacataa aatcacataa 180
 aaaccctgta cactatcaaa aacaatgtc 209

<210> 13021
 <211> 430
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-030-Q1-K1-G7
 <400> 13021

tacatagtga agtacactag caacatctta gcaccaatgg cagccaagat ttttgccgtc 60
 cttgccctcc ttgctctttc agcaaacgtt gctaccgga ctattattcc acaatgctca 120
 caacaatacc tctctccggt gacagccgag agatttgaat acccaactat acaatcctac 180
 aggctacaag aggccatcgc agcaagcatc ttacggctgt tagcattgac tgtccaacaa 240
 ccatatgccc tattgcaaca accatcctta gtgaatctat atctccaaag aatcgtagca 300
 caacaactac aacaacaatt gttccaaca atcaacaag tagttgcagc gaaccttgat 360
 gcttacctnc agcaacaaca atttcttcca ttcaatcaac tagctggggt gaacctgct 420
 gcttacttgc 430

<210> 13022
 <211> 295

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-030-Q1-K1-G9
 <400> 13022
 ccggaattcc cgggtcgacc cacgcgtacg cggacgcgtg ggcggacgcg tgggctttca 60
 acctgcatga acaagagcaa ttgctgcggg atgcaatcat gaggcaccct gcagactacc 120
 caactgatgt acccgtttag ttttcttggc cttagatgag cagtatcggt gtgtaattat 180
 tgatgagtca ggtccatagc attttgaata atacagtgat tcatccagtg aactgctgat 240
 tcaacacggt cttaaaaaaa aaaaaaatg atgcataaaa aacataggag gactt 295

<210> 13023
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-H1
 <400> 13023
 tgccagcttt gggtatgatt acttgcttag gcagtgccgc ctaagaggca aaatagactc 60
 gaatgggtgtt gttgccgcat acttggaaga gaggttgaac atgggtgtca acttccttct 120
 atctgctgag attgaccatt gtaagaagaa ctacaagttt ggttttggaa tgaccgtagg 180
 agagtaattc tgccaaaaca attgctgtga gcgcacatga gatacttatg cagtcgggctt 240
 cgcgcgatg ttgacttggt aaagatatct caggtctcag ttttgactga tcagggtttg 300
 ccattgcgcc gtggaaaaac acaggccggt gctgctttac aggggtttgt atttcagtgt 360
 tttttcagct acttgagcat gggggccatg attctttggt catcttggtat gtaactagct 420
 gat 423

<210> 13024
 <211> 218
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-A2
 <400> 13024
 cacgcatgcg ggaggctata cgcccagcca cgcctatgat ctgcaggacg ctcagcgcca 60

gctcgggtggc aggttgccgg gggctgtgcc tttctgtcca agatgggtcat tattgaccat 120
 ggagacttct agcagcaatt ggcaccttgc attgttagct atgccttttc tgatgctgtt 180
 gctaacaagg aaggcatccc atcccaattg gattgtac 218

<210> 13025
 <211> 453
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-031-Q1-K1-A6
 <400> 13025

tcggaattcc cggctcgacc cacgcgttcg cgagcttcgt gttgcaccag aggagctctc 60
 ctgtgttgct cactgaggct cctttgaagc cagaggccaa cagggagaag atgacccaaa 120
 ttatgtttga gactttcaat gttcctgcc aatccaagca gttctatcac 180
 tctatgctag tgggcgtact actggtattg ttcttgactc tggatggtgt gtgagccaca 240
 ctgtgcccac ttacgaagga tatgcccttc ctcatgccat tcttcggttg gatcttgctg 300
 gtcgggacct cacagactcc ctcatgaaaa tcttgactga gaggggttac tccttcacaa 360
 cctctgccga gcgagaaatt gtaagggaca tcaaggagaa gctggcatat atagcccttg 420
 actatgagca agagttggaa actggcaaga aca 453

<210> 13026
 <211> 73
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-031-Q1-K1-A9
 <400> 13026

aaaaaaaaa aaaaaaaaaa aaaaaatta aaaaaaaaaa aaaaaaaaaa aaaaaaaag 60
 aaaaaaaaaa aaa 73

<210> 13027
 <211> 450
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations

<223> Clone ID: LIB3059-031-Q1-K1-B11

<400> 13027

ccggtctcgg aattcccggg tcggacccac gcgtctcggg ggacgcgtgg gggcaaaatt 60
tatatgtag atntagacat ggaaaaaata ttagaggtag gaaagtagga tcatgtcagt 120
gtatgagcta gaaactacga agtaatcaca tggctaacta tgtacacttg agcatacctt 180
tacgggccag aaaactaagt ggaaagacta ggcattggac ttcagatagt ggattttatg 240
ttttagagaa ataagtaaag atcttttgac ttgagtcagc aagtgtctca tgtttcacct 300
gaaatgctct ctggctgtgc atgtcctaaa aactattaat gattttaact tttacctttc 360
aatttttcat ttactagttt gctgtccaca gattattttg gttcaagttg ttacttttat 420
agattcaata actgttatcc aaatattatg 450

<210> 13028

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-B12

<400> 13028

gaattcccgg cgggacgcac gcgtccgagg acgcgtgggg caaaatttat atttttatta 60
gacatgaaaa aatattagaa gtgccgaagt atgatcatgt cagtgtatga gctagaaaact 120
acgaagtaat cacatggcta actatgtaca cttgagcata cttttacggg ccagaaaact 180
aagtggaaaag actaggcatt ggacttcaga tagtggattt tatgttttag agaaataagt 240
aaagatcttt tgacttgagt catcaagtgt ctcatgtttc acctgaaatg ctctctggat 300
gtgcatgtcc taaaaactat taatgatttt aacttttacc tttcaatata tcatttacta 360
gttcgctgta cacagattat tttagcccag gtagattctt tcatagattc aataacttgt 420
attccaatat tatgacctga tg 442

<210> 13029

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-C10

<400> 13029

actcgtaagt cgtgacacag ttattcgtgg atatatatac ctcatatata ctcgtagagc 60

agatgttgct acgcgttagc acctgtactc tcagtcagggt aggagtagga cgtaggacct 120

cacccgacat actcgatccc gacgccacca acagttacca tgtccccggc gcacctcggc 180

acgagcgaca cgatgatcgt cttgtccccg tcagcaccga tgtcgtcgag caggtcgcat 240

atgccgaacc tcgccacggg cttcacctg cccttgccct tcccaggccg gaccgcgtgc 300

ggcgtcagcg ccacgctccc cgcgcactgc gccgcgcgcg gcattgccgc cccgctctgg 360

ga 362

<210> 13030

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-C7

<400> 13030

cacgcgtccg aggttcagcc ttgctgccat gtaegggttt gctgtggctg ctcttggaat 60

gctcaagaca agcgtactg gcctggccat tgatgcctat ggtcctatca gtgacaatgc 120

tggaggaatt gctgaaatgg ctggcatgag ccacagaatc cgtgagagaa ctgatgctct 180

tgatgctgct ggaaatacta ctgctgccat tgggaagggt tttgcaatag gttcagcagc 240

cttggtgtct cttgccctct ttggtgcttt tgtcaccctg gctgaaatct ctactgttga 300

ag 302

<210> 13031

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-C9

<400> 13031

ccggtttcgg aattcccggc tagacgcacg cgtccgcgga cgcgtgggaa aaaaaaaaaa 60

aaataaaaaa aaaaaaaaaa aaaaaaaaaa aaaagaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 ataaaaaaaa ataaaaaaaa taaaaaatat agaaaaaaaa taaaaataat aaaatttaata 300
 gatattaaaa aaaaataatt ttttaaaaaat ttaaaaaaag agggagggggg 350

<210> 13032
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-E10

<400> 13032

accggtttcg aattcccggc tggacgccac gcgtccgcgc ggagaagctg cagagccggt 60
 ttgttcagcg aggcgagatc gtccgcgtgg agccgtgaca cggctttgac cagctgaatc 120
 cgtcgccgtc gtcgtcgtcg ttttcgttcc catcgtcaca agtccagtac caaacgtgcc 180
 agcgcgacgt cgacaggcac aacgtctgcg ccatggaggt gaggcacagc gtcgaacggc 240
 tggaccaggc cgacgtctac agccctgggg ctgggaggat cacacgcctt accagccaca 300
 agttccccgt tctcaacctc gtacagatga gcgcggtgcg ggtagacctg taccaggact 360
 ccatcatgtc gccgatctgg aatttcaacg cccactgcgc catgtactgc atcaagggca 420

<210> 13033
 <211> 455
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-E11

<400> 13033

ccggtttcgg aattcccggc tcgacgcacg cgtccgcctt tgttgattca acaatcgcca 60
 gccctatctt tgggtgcagtc attggtacaa accagcaagg cacaacagct gcagcaactc 120
 gtgctacctc tgatcaacca agtagctctg gcaaaccctt ctccctactc tcagcaacaa 180
 caatttcttc cattcaacca actgtctaca ctgaaccctg ctgcttattt gcagcaacaa 240
 ctattaccat ttagccagct agctactgcc tactctcagc aacaacaact tcttccattt 300
 aaccaattgg ccgcactgaa ccccgctgct tatttgcagc agcaaatact actaccattt 360
 agccagctag ctgcagcaaa ccgtgcttac ttcttgacac agcaacagtt gctgcctttc 420

taccagcagt ttgcggctaa ccccgcaacc ctctt

455

<210> 13034
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-E3

<400> 13034

ccggctcgac gccacgcgtg cgctggtgat taataatact actattactt agccatgctc 60

tgtgaagagt attaggaccg tcgctcataa aagctacagt tccgtctctt ttctcagcta 120

tgtaaaactt ccaaactggt catgcttaaa actgaggggt ttcttggtgt gaggtgtgca 180

tgtcgttggt gaggccattg ctgcacattc cacctattga ggccctcctc aaattaagcc 240

tcgaaaaagc tgatatcttt tcgtag 266

<210> 13035
<211> 209
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-F3

<400> 13035

aattcccggc tggacgccac tcgtcctaga atgtgactga tgcgcttac tacttttaca 60

cggacaccag tatcggtccc gtggtattaa acgccagggt tagcctcacc actttactgt 120

cgcccaacga cctgcttaac atgttcctta tgtcataatg caatagaata ctcacatgaa 180

cacttctact cattagcaca tatatcact 209

<210> 13036
<211> 199
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-F4

<400> 13036

agagaagctt ttggagatgg tcgtaaagcg acagacttca attacaaatg caaatactag 60

agcagttcag caagtgatga tggaaggaaa cacccaaaca ttacccatgg ggccaggaca 120

caaacaaagg ttttttaaca ccacaacctg gctcgacaac caaacagatt catgcaagca 180
gaacaatatt tctcctcct 199

<210> 13037
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-G3

<400> 13037

tcggaattcc cggtcgcacc caccggtgcg aggtcgccaa cccgcacctg ctgttgcttg 60
gttagcggcg ccacgcctg cgcggtgggc aggacgtgtg tggcgccgat cgagacgatc 120
cggacgcact tgatggtcgg cagcatcggc gtcgactcca tggccggggg gttccagtgg 180
atcatgcaga acgaaggggtg gaccggcctg ttccgcggca acgccgtcaa cgtactgcgc 240
gttgctccaa gcaaggctat cgagcatttt acctatgaca cggccaacaa gtttctaacc 300
cccaagggtt actagccgcc caagatgccg atccccactc 340

<210> 13038
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-H10

<400> 13038

acgcgtccgg tccgtcagca ctgggccaca tatggtcgcc attactacac acgctatgac 60
tatgagaatg ttgatgcagg ggctgctaag gagcttatgg caaacctagt aagcatgcag 120
tcatcacttt ctgatgttaa caagttggtc aaggagatcc ggtctgatgt ttctgaagta 180
gttgacagctg acgagtttga gtacaaggat cctgttgatg gctctgtgtc caagcaccag 240
ggcatccgat acctcttttg agatgggttc cgactggtgt tccgcctctc tggaaccggt 300
tctgttggtg ccaccatccg tgtctacatc gagcagtacg agagggactc ctctaagacc 360
ggcagggatt cacaggacgc ccttgcttcg ctggttgatg ttgcgctcaa gctcttcaag 420
atgcaag 427

<210> 13039

<211> 393
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-031-Q1-K1-H2

 <400> 13039

 cggctcgacc cacgcgttcg agaccaacta gcaacatata aagcacatta gtttaccaac 60
 aatggcagcc aaaatagttt gggctccttat gtccttgggt ctttctgcaa gtgttgctac 120
 cgcaaccatt ttcccacaat gctcacaagc tcctatagct tcccttcttc ccccatacct 180
 ctcaccagcg gtgtcttcag tgtgtgaaaa cccaattggt caaccctaca ggatccaaca 240
 ggcaatcgca acaggcatct taccattatc acccttggtc ctccaacaac cgtcagccct 300
 attacaagag ttacctttgg tccatttggt ggcacataac atcaaggcac aacaactaca 360
 acaacttggt ctagcaaacc ttgctgcata ctc 393

<210> 13040
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-031-Q1-K1-H7

 <400> 13040

 cggaattacc ggctggaccc acgcgttcgc agatatctac tatactatac tctaggtagc 60
 atggacacca ccgccatggc agccaagatg cttgcattga tcgctctcct agctctttgt 120
 gcaagcgcca ctagtgcgac ccatattcca gggcacttgc caccagtcac gccattgggt 180
 accatgaacc catgcatgca gtactgcatg atgcaacagg ggcttgccag cttgatggcg 240
 tgtccgtccc tgatgctgca gcaactgttg gccttaccgc ttcagacgat gccagtgatg 300
 atgccacaga tgatgacgcc taacatgatg tcaccattga tgatgccgag catgatgtca 360
 ccaatgggtct tgccgagcat gatgtcgcaa atgatgatgc cacaatgtca ctgcgacgcc 420
 gtctcgaga ttatgct 437

<210> 13041
 <211> 286
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-A1

<400> 13041

cccgtctgac ccacgcgttc gagcaagtca acttgtggag ggtgctttga ccacggcaca 60
tgcgatcact gatgcgcgga agcaactatac ctgggtccgat ctatctcgac tatacctatg 120
tatggcacta ctagtttgaa cctcatgccc agctactgta gatctgatcc agcattcctt 180
attctgcatt gtctcctcat tctacaagtg acttgtatga atctcacggg cctaactgag 240
aatctttgtg agcttgatcc agatcctaag atcttgatcc taaaca 286

<210> 13042

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-A6

<400> 13042

gaattcccgg gtcgacccac tcgtccggtg aaaaccaat tcttcaacc tacttgatcc 60
aacaggcaat cacagcaggc atcggaacct tatcaccctt gttcctccaa caatcatcag 120
ccctattaca tcaattacct ttggtgcatt tattggcaca aaacatcatg gcacaacatc 180
tacaacatct cgtgctagca aaccttgctg cctacgctca gcaacagcag ttacctttgg 240
tgcaattggt ggcacataac atcatggcac atcaactaca acaactcgtg ctagcaaacc 300
ttgctgccta ctctcagcaa cagcagtttc tgccattcaa ccaactagct gcattgaact 360
ctgctgctta tttgcaacat caacatctac taccattcag ccagctagct gctgcctacc 420
accagcaatt tcttccattc aaccaactgg cag 453

<210> 13043

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-B3

<400> 13043

ccggtctcgg aattcccggg tcgaccact cgtccgcgca ctggtgctcc cacgcgttcg 60
cattgaaggg ataaaacgcc ctccaaggtg tggagctcta attgagagca gtacatacaa 120

gggcatgtac catgccctaa aggacattgt cccaaaggac ggatttggag gcctttataa 180
 gggccttttc ccctcttttg tgaaatcgac ccctgctggt gctgtgacat ttgtggcata 240
 tgaatacatc tcagactggg ctagagtcaa tactgatgtg aaaatcttca atgcagatac 300
 tgagcaaggc tggatttgag tgacttcttg atggatcatg gaactatcaa tacaccatga 360
 cgagaacttt ttgcacaccg tggacatgga cgatggagac cgca 404

<210> 13044
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-B8

<400> 13044

aattcccggg tgcacccact cgtccgtgtg catctttatg aatagagtat tctgctcagc 60
 ataatttttt aaccgcgtcg atacgatcca ttgaagaggt gacttttcca ggattcatct 120
 actgcttcta cataggtgca ccaagtgaac tcatactgga cattggaata ggtgacataa 180
 aagccaattc atacttaaag tatatggaga tctggaacaa attatgactc cgaccgacat 240
 agacgatcca agattactta cgcgtgcatt ctacgttata tttattctat aatgccacct 300
 aaattaaatt cactgtccgt tggctcgaaa cgttctcact gttaaaaccc ttgcgtacct 360
 tacttaatcg ccttt 375

<210> 13045
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-C12

<400> 13045

ccggattccc gggctgaccc agcgtccgag gcaccatgga atccatccgt gccggcccct 60
 tcgcggcatc ttccgccgga cagctttgtc tacggccagt ccggcgccgg gaacaactgg 120
 gccaaaggcc actacaccga gggcgccgag ctcatcgact ccgtccttga cgtcgtgcgc 180
 aaggaggccg agaactgcga ctgcctccaa gggttccaag tatgccactc cctgggtggc 240
 ggcactgggt ctggcatggg cacgctgctc atttccaaga tccgggagga gtacccggac 300

cgcatgatgc tcaccttctc cgtgttcccg tcgccaagg tgtccgacac cgtcgtggag 360
ccctacaacg ccacgctgtc cgtgcaccag ctctgtggaga acgccgacga gtgcat 416

<210> 13046
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-D2

<400> 13046

tccggattcc cggtcgaccc acgcgttcgc gactcgtccg gctttgcttc tgggttacat 60
tgtactgaat catgtggatg tgaagcttgg cataacaagc cacaattgca aggtactctg 120
cggatggcaa cagttttacc tctgaaacct gtccaaacat tcgaagctgg ccaagatata 180
gtggaacaag tcataaggctc tcctatggat cttattagaa gaaaatgcac atgcaagaag 240
tcaggctgcc ttaagaagta ctgcgactgc taccaggagg gggcaggatg ctccatcaac 300
tgtaaagtct atgattgtag aaaccattt gggagaaaag tcggcgttat tttggacggt 360
aaaagcaatc ttactgcacc tatactgcac gaaagaaacg gtactgaagt tgactcaag 419

<210> 13047
<211> 150
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-D5

<400> 13047

tccggaattc ccgggtcgac ccacgcgttc gcggactcct cggcggacgc atctgctgac 60
gcttctgccg tcgcttagga acccatcggt gctggtgccc tctcttagat tgcttatgag 120
ccatagctca atcttaaaga tttgctgctg 150

<210> 13048
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-D8

<400> 13048

aattccccggg tcgacccact cgtccgaaga tctgttatat catgtgagcg gcttgcctcc 60
acatgatata acagatcgga ttgtgggtcca tgaacaccgt ggtcaacctg atgggtttgat 120
tgtctcccat ctaccacatg gtccaactgc atactttggg ttgctcaatg tggtgacacg 180
tcatgatatc aaggacagga agactatggg caaaatgtca gaagcttacc cccattttaat 240
actggacaac ttctcaaccc agattggcga aaggactgca actattctga agcacctctt 300
tcctgtccca aagccagatt caaagcgaat aattacattt gctaacagag acgattacat 360
ctctttcagg catcatgtat atgaaaaacc aggtggcccc aaatcgattg acctgaatga 420
ggtcggcccc cggttcgagt tgcg 444

<210> 13049

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-E11

<400> 13049

tccccgggtcg acccaactcgt cctcccactc ttctcccccac tctttcgaat taaaaaaaaa 60
aaaaaaaaaa aaaagggaaa attaaaaaaaa aaaaataaaa aaaaaaaaaa aaataaaaaa 120
aaatttttta attaaaagcg tccgttctat agtatccaag cttacttaca cttctttgct 180
acttcatacc ttttttattg tgtcacctaa attaaattca ttgtccttct 230

<210> 13050

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-E3

<400> 13050

cgggtccgtga tccccgggtc gaccactcgt tccgggcggc gaccggtcg tgtcggcggtt 60
ccccgagggg gacaacatgc tccactgggt gggcaccatc gcgggatccg ccgggactgc 120
ctacgagggc acctcctacc gcctcgcgct ggccttcacc gccgagtacc cgtacaagcc 180
gccaaggtg cggttcgaca cccctgctt ccacccaac gtcgacgtgc acggcaacat 240
ctgcctggac atcctccagg acaagtggc ctccgcctac gacgtgcgca ccatacctct 300

ctccatccag agcctgctcg gagagccgaa caacgactcg ccgttcaaca cgcaggcggc 360
 ggcgcttttg gcgaaccagg aagagttcag gaagaagggtg gagaagctct acaaggccgt 420
 cgcgtagagg aca 433

<210> 13051
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-E5

<400> 13051

ccggaattcc cgggtcgacc cagcggttcg ccgactcgtt cgcccacgcg ttgcccacg 60
 cgtccgcca cgcgtccggg aaaaacgtgt tgggtccaag aaaccaattg ttgtgaagta 120
 tggccttaac catgtgactt acctcattga gcagaacaag gtcagctcg ttgtcatcgc 180
 tcatgatgtg gatccgattg aactggttgt ttggcttcca gccctgtgca ggaagatgga 240
 ggtcccatac tgcattgtta aaggaaaggc tcgccttga tcgatcggtc acaagaagac 300
 tgcacagtc ttgtgtctga ccactgtcaa gaacgaggac aagcttgagt tcaacaagat 360
 cttggaagct attaaggcga acttcaatga caagtttgat gaagtcagga aagaatgggg 420
 gaggtg 426

<210> 13052
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-E6

<400> 13052

tggactcgtg gtcggacgcg tgggcggacg cgtgggcaac tagcaacata gagagcgcaa 60
 tagtgtacca acaacggcag ctaaaatatt ctgcctcctt atgctccttg gtctttctgc 120
 aagtgtgtgt acggcgacca ttttcccaca atgctcacia gtcctatag ctgcccttct 180
 taccocgtac ctatcaccaa cgggtgtcttc agtatgtgaa aaccaattc ttcaaccgta 240
 caggatccaa caggcaatcg cagctggcat attaccttta tcaccctcgt tactacaaca 300
 atcatcagcc ctattacagc agctaccttt ggcgcattca ttggcacaaa acatcagggc 360

acaactacta caacaacttg tgctagcaaa ccttgctgcc tactctcagc atc

413

<210> 13053

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-F3

<400> 13053

attccccgggt cgaccactc gtccgtcgga ctctgtcggt caaaaacaca ccattcgaaa 60

ctacctagca actactcagc atggatatct accaagatat tatcccttct ttctgttttt 120

gacctgtcag cgagcgcaac atatgcattc attattcttc aacgctcatt tgctcctagt 180

accattatac cacagttctt acgaccatta tcttcaatgg gcttctaaca cctatctctg 240

catgcctaca agctacaaca tgcacttgct tcgagcgtgt 280

<210> 13054

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-F5

<400> 13054

ctcggaattc ccgggtcgac ccactcgtcc gagatcacat tatctgactc gtcctatcta 60

ctatggcaat agcctctctca attctatgca tagtgcacat taaaaattat gaagctaact 120

acaaagaata caatgccata tgtcaaataa tcacttttct agggcaatat agaacacatg 180

agcttcatac atatgacctc ctggctatta ttggacagtc agttgaaagc gaaagtgttt 240

caatgctaata gtaggatcat tttgctagct tatcaacttg ttatttaaga agacgggtcg 300

actctctgca gaaagcttgt attatcataa tgattatcga cacatatctt at 352

<210> 13055

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-F6

<400> 13055

gccacgcgtc cgtacacgcg tccgtagcag cattggcgac caagatatgg gccctccgta 60
agctgaatag ctctatctgc atgcagttgc taacacgaca atgatcactc aatgctcaca 120
agctcctata gctacccgta ttcacgcata ctttccatca atgatagctt cagtatgtga 180
aaacccagca tcttcagccc tataggtccc aacaggcaat ctcagcacgc aacatacctt 240
tatcacactt gttgttgcaa caatcgccag tcctatctac ggtgcagtca ctggcacaaa 300
ccatcatggc acagcacctg cagcaactag tgctacctgt gatcaaccaa gtaactctga 360
caaacctttc tg 372

<210> 13056
<211> 136
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-F7

<400> 13056

ggaattcccc gctggaccga ctcgtccgtg gtatgcgtac acggtctccc tctttctggc 60
tttagtagag tgagagtgat tcatgtatta gtagacaagg ggaaatgggtg aatgttgctc 120
aagggatcga tgcggc 136

<210> 13057
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-G5

<400> 13057

cggctcgacc cacgcgttcg cgggggtatta gtatttgagt tgattttgtgg aactcacgaa 60
gctgtgtttg cttagtgtcg gagaaatacg agaagcgtg gggcttttgt actatatact 120
caccctaaatt ttcagtgtgtg cttgacgcgt gataagttcg gagataacac gtcatagtt 180
taagacctgt ctgactactg gcagaacatg acatcatttg attttctgtt catagttggg 240
aaatcttggt ttgtttcgga ctaatgcttg ttccatggat tttaacgaa tacatttagg 300
gtctgttctt ctaatgttaa ttcagtgtga ttggaagagg ttgaggcctt ccgtttctcc 360
agcattagat ccagaattgt tccagctgat caaatcttat atattttaga taagcaatcc 420

ggctggtaaa tcgttt

436

<210> 13058

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-G6

<400> 13058

aattccccggg tcgactccac tcgtcctgcc tagtatgatg ccaccaatga tgattcctag 60
catgggtgtca ccaatgatga tgcgaaacat gatgactgtt ccacaatgtt actctggttc 120
tatctcacac attatacaac aacaacaatt accattcatg ttcagcccca cagccatggc 180
gatccccacc atgttcttac agcagccctt tgttggtgct gcattctaga tataagcatt 240
tgtgtgttac ccaataatga agtcggcatg ccatcgata ctactcattg ttaggaata 300
aaacaagcta ataatgactt ctctttcatt ataact 336

<210> 13059

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-G8

<400> 13059

gtccggaatt ccaggctcga cccacgcgtt cggcaaattg caccaagaaa tccatcgata 60
ggccgtcgac aggggaatta atggcgtggg cgtctagcag cagccaccgt cgtctcatcc 120
tcgcagccgc cgctctgctc tccgtgctcg cggctgccag cgccagctcc gggaccttct 180
gcgtgccggg gtggggcatt ccgcacaacc cgctcccag ctgccgctgg tacgtgacca 240
gccggacctg cggcatcggg ccgcgccttc cgtggccgga gctgaagagg agatgctgcc 300
gggagctggc ggacattccg gcgtactgcc ggtgcacggc gctgagcatt cttatggacc 360
gcgcgatccc gtcgggcccc gacgcgcata tggaggg 397

<210> 13060

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-H4

<400> 13060

ggaattcccc gttcgagcca cgcacacga gtaaagttaa cgtgtagaaa tctaggactt 60
atccattatt cgttccatgg aaagggggag tgattatggg cgtccttgat attggtaagg 120
atgctgtgat tcatagagaa gattggatta aaaatggtgt ccacatcggg agtggcagaa 180
aatataagga ttctatTTTT cttcaggcgc aagtaatgtg ctacttcaac gtataacaat 240
atcttatatt cgagctacac acgaagactt gcacttatac aggttggttcg accgtccaaa 300
ccatcctaga atatgattgg tggactgcga ttaaattgcg tacatgatgc atcagttcta 360
tgcagtctcg ctgctgtctg ttcggaggtc atcaactcgg gacctggact aagggtcctg 420
tcgttcgctc aaccctatg aaaaagtttg 450

<210> 13061

<211> 461

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-032-Q1-K1-H8

<400> 13061

tccggaattc ccgggtcgac ccatttttat gggtagcgga gcgagtagat cgtgcgcgcc 60
tactacatct ccacgacctt gtgatggggt ggggctcacc ttcacgaagc tcttcagccg 120
gctcttctcc aagaaagaga tgaggatcct tatggttggt ctcgatgcag ctggtaagac 180
caccatcctc tacaagctca agctcggaga aatcgtgacc accaatccta caatcggggt 240
taaattggga aactgtgaat acaagaacat tagctttact gtctgggatg gtggaaggca 300
ggacaagatc aagccattgt ggaggcacta tttncaaaac acccaaagcc ttatcttttg 360
tggtgatagc aatgacagag atcgtgctgt tgaagcaaaa gatgagctcc acaggatgct 420
gaacgaggat gaattgangg atgctgtctt gcttcgtttc g 461

<210> 13062

<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-A6

<400> 13062

ccggttcgga attcccgcgt cgacccacgc gtgcgttggt tttttttttt ttgtttttct 60

tttttttctt tttttttttt ttttttgtga ttgcacaaac aaatcccaat cccctttaat 120

tattgttccg gatgaaccat cctagaaatg ctttaatctt ttgctcgcc ttattattta 180

aacatatgaa ctagcttcaa gctcattcct catgcactat actctttgca attacttgga 240

gggcatttt 249

<210> 13063

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-A7

<400> 13063

aattcccggc tcgacctacg cgtccagttc ttcgcatcag ctggtgtttc gctaccttat 60

cgccctccga ctgctggtgg gctgtcggca ccggcgctc caaactccat gtgctgaggc 120

ctacgccagt gtcttctacg actacgagca cgttctatca ccaaacaatga tgtctgaaag 180

aagtcaacat gctgaaccat agatcgataa cctcagtaaa tgttaccatg cagtcctcat 240

aggaaggatc cagcatgatg acctggatgt ctcaaatttg gaattcgta aaacagcttt 300

taccttgacc atgtgaaagc tggttaacttg aatggttaca cgtacctttt ctttgagact 360

agggtagcta ttatagaatc ttccttatgc tcatacttct gcgccttttc 410

<210> 13064

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-B1

<400> 13064

gaattcccgg gtcgaccac gcgtacggga cgacgcactg agatcgaaat gcgctaggat 60

acgagatctg aagcttcctc acgggtccgg ctccgacttc aagtatcggg cttacatcgt 120

cagcagcata gccaaactcg gctctgattt tgaggttgat atgtatgatg atctgctgga 180

tgtggtcact gaagatgatg atgctgattt cgatgacatg gatgatttcg atgatacagt 240

ctcagatgga ggcattgtacg atgatgactt ggatatctga aattaggaat cggttcaaac 300
agctttttccg tggaccatgt aagtgtctgtt agctggaatg gtttaccgtc ccttttcttt 360
gagattcggg tagctatgat ggaatctccc tgatgttcat acttctgcgc ctctccattt 420
gtaagaagct ggagtaactg aactggttct aatcgat 457

<210> 13065
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-B11

<400> 13065

cacggcatcg ccatccgcgc ccgcgggccg gtggcggcga cgcaggcccc cgcgcgcgga 60
cggcaatgcc gcgtgtctgc ggcggcggtc ggcgcgcccc ccgcgcgagc ccgcgtgacg 120
cactcgatgc cgccggagaa ggcggagggtg ttccgctcgc tggagggctg ggcggcgcg 180
tcgtgtctgc cgctgtctaa gcccggtggag gagtgtctggc agccggcgga cttacttccg 240
gactcctcgt ccgagatggt ctggcacgag gtccgcgagc tgcgcgcccc tgccgtgggg 300
cttcccgaact agtacttcgt cgagctcgtg ggcgacatgg tcactgaaga agcgctagcc 360
acgtaccaga ccatgatcaa cacgctcg 388

<210> 13066
<211> 463
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-033-Q1-K1-C11

<400> 13066

ccggaattcc cgggtgtcgac tccacgcccc tccgaagata ctgaactcaa ctctattggn 60
gtgtggatag ttcaaattccg ttggaatttc aaccacttta actgtgggta gagatcaagt 120
gttctaagct gctgggatac tctgcagggc aaggagaaga tttggtggcc ctcatgtgat 180
aggataccta tagtccatgg ccaagtgtgt cgatcatnca tcgtttgatg taactctcaa 240
gggcttactt acacagaatg gttcctaacg tggcataggg aactgtgca gtgggtctgtg 300

aaaaccatac tcattgtcct ctgcggtaat aaggttgatg tgaagaacag gcaggtcaaa 360
 gccaaacagg ttactttcca caggaagaag aatcttcagt actatgaaat tactgccaag 420
 agcaactacg actttgagaa acctatcctg taccttgcaa gga 463

<210> 13067
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-C2

<400> 13067

tcgttggtat tgatattgac ccacagtcac ttgaacttgc tcaagaaaat gctgctggtc 60
 tggagctgga catcgattta gtttggtctg acataaagaa cttaaactctg aaaggcgtcc 120
 atgttgatac tgctgtcatg aatccttctt ttggtacacg aaggaatgga gcagacatgg 180
 agttcctctc tatggccttg caagttgctt ctcaagctgt ctattctcta cacaagactt 240
 ccactagaga acatatcaag aaggcaacct tgcgtggctt caatgccatc agtgctgatg 300
 ttctatgcga gctgcgttac aatctaccgc ggacgtacaa attgcacacg acaaaagaga 360
 ctgacattgc aaacgatctg tggctctttt gatctaacgc cc 402

<210> 13068
 <211> 359
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-C5

<400> 13068

cccatgcagc cttctcctac cactgaacat cataatctct ttcgagagca tctaccaaga 60
 gcgcggtctt cctagtgcga gctccatata gtattgacaa ctgtcgacca ccgatgatta 120
 tgtcctcaga ctgcacacat ccaactcaac cacttcacg accactactt cgacaaccaa 180
 ccataagtcc ttcattgcaa aatcatcctg tatcctgaca cgcaaatgat ccgatctta 240
 ggctttacta ccatctgcac atatgatgtg attcaggacg ctatccagggt cattaacccc 300
 actgaactga acagtctcat catcaacgtt gacatggccc acatccgcct ttatcatct 359

<210> 13069

<211> 256
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-033-Q1-K1-C7

 <400> 13069

 ggaattcccg ggctgaccca cgcgtgcgcc cactcttcac gaccacgcgt tcgatggtct 60
 tgccgagcat gatgttgc ataggatggtgc cacatatgtc actgccactc cttcttgcag 120
 atcatgctgc aacaataatt accatctatg aataaccaa ttgccatgac taatctaccc 180
 atgctcttac aggaacattt accattagct gcatattaga tagatatatt tgtgtcgtac 240
 caaataatag atttga 256

<210> 13070
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-033-Q1-K1-D1

 <400> 13070

 ccggaattgc cgggtcgacc cgcgcgtacg atcagcaaag cggcagtgcg tagagaggat 60
 cgtcgaacag aacagcatga agatggtgat cggctctcgtc gtgtgcctgg ctctgtcagc 120
 tgccagcgcc tctgcaatgc agatgccctg cccctgcgcg gagctgcagg gcttgtacgg 180
 cgctggcgcc ggctgacga cgatgatggg cgccggcggg ctgtaccctt acgcggagta 240
 cctgaggcag ccgcagtga acccgctggc ggccggcgccc tactacgccg ggtgtgggca 300
 gacgagcgcc atgtaccagc cgctccggca acagtgtgc cagcagcaga tgaggatgat 360
 ggacgtgcag tccgtcgcgc agcagctgca gatgatgatg cagcttgagc gt 412

<210> 13071
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-033-Q1-K1-D11

 <400> 13071

 ttgagaccaa ctagcaacat agaaagcaca atagtgtacc aacaatggca gccaaagaga 60

ttgtgcttcc ttatgtcctt tggcttttct gcaagtgtg ctaccgcaac cattttccca 120
 caatgtcac aagctctat agcttccttt cttccccat acctctcacc agcgggtgtct 180
 tcagtatgtg aaaacccaat tcttcaaccc tacaggatcc aacaggcaat cgcagcaggc 240
 atcttacctt tatcaccctt gttcctccaa caaccgtcag ccctattaca gcagttacct 300
 ttggtgcatt tgttggcaca aaacatcaag gcacaacaac tacaacaact tgtgctagga 360
 aaccttgctg cctactctca gcaacagcag tttcttccat tcaaccaact ggctgcattg 420
 aactc 425

<210> 13072
 <211> 276
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-E2

<400> 13072

ccggaattcc cgggtcgacc cactcgcttc ggtctcgctc accaagccac cactacttca 60
 cttcacacca caccaccgtc agcatccgct cgctagccaa gtacactaag gccttttcta 120
 cagcgtgaa ccggtcgctc caacttctcg ccgctcgcg cgatgcgttc aagccagctt 180
 ctctgtatt ccatgccaac ggctcaata caatgcaatg gcatggccac taggagccat 240
 actacatcca tgccaagcac atgcataact cgcaca 276

<210> 13073
 <211> 378
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-E3

<400> 13073

ggaattcccg ggtcgactca cgcgtccgcg aaggtcatct ggatacctcg tggactttat 60
 ggtgatgagg atacaaacgg ccacggggac gacatgtgct gttcatcaa accctgtgtg 120
 atcctgctgt cgtggaccga ccacgtgaag gaccatcatt acgaacggtc tgactaggca 180
 ctgactgttc tctaccagtc cttttactca aaagggcggc agctccaagt ggtgaagatc 240
 cacgtcccg ggctctgta catgacagag gaagaggcac aaggcgtagt ttcacggga 300

cattctgtgc cgaggccagc tggcacgaga taggccgact cgtatcgtaa cttctacatc 360
gacaatggcg ggatcata 378

<210> 13074
<211> 241
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-E4

<400> 13074

ccggattccc ggtcgaccca cgcgttcgag gaattccttc ccctagccgc cgtctccggt 60
gctcgtctcc ctgagagggtg cctgtaccga ggaactggcc gactactagg tagagaatcg 120
gtttttcttg tctcagcccg ggggtctgctg cgtctgggtg tggtgaacgg gagaattttg 180
tgagatctgt tttggatcat gcgtaccatc tcgggaatca cgggtgtcac acgtatcttc 240
g 241

<210> 13075
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-E6

<400> 13075

ccgggtccgga attcccggtc gaccacgcg tgccggacgc tggcggcgct tttgcttgct 60
tacatctca tgacgcggga tcgctgcgtc cccgaccca cttgaaggcc cgctaaaaga 120
acttgccggc ttgccgccg aagtgcagag ggattcgccg tcacccttgt cacggagccg 180
agtgcaacct tggcaccatc agcggcgctc ccgaatgccc ctggattctc ggccggcgaa 240
cgatgccctc caagtaactg cgaagagcat agtgcagag gaatgagctt gtagctagct 300
catatgtctg aataataagc acagcaagaa gatgaatgca tttctcggtat cgttcatccg 360
gaacaataat taaaggggat ccggatttgt tcttgtgat 399

<210> 13076
<211> 177
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-E7

<400> 13076

acagcagtta ccattcatgt tcaacccaat ggccatgacg attccacca tgtgcttgac 60
agcaaccctt tggtggtgct gcattctaga tagaaatatt tgtgttgtag cgaataatga 120
gttgacatgc catcgcggtg gactcattat taacaataaa acaagtttcc tcttatt 177

<210> 13077

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-F6

<400> 13077

tcggttctga attcccgact caaccacgc gtgcgccgac gcctgctacc actcttctta 60
ccactcgtat gagccttcgc cgcataggga tggactatct catcaatgc cacatcacat 120
ctatctctcg atcttacca tagtggatgt acaacaacta caacacaccc ctaagctgtt 180
catacgttgt acattcgatc atctacatgt gaacgacata tccctgaacg actaccttgc 240
tgctaactcg acgaatcacg caatgtacct gccacacacc ccagaacatt actccaagaa 300
tcgactcccc attgctcagt gcacgatcgt gcagcgctt acaaactccc tcatgattca 360
cggactcaac aaccgcaaga aggtcatatc tgtccgcac atcaagcata ccctgtagat 420
catttaaa 428

<210> 13078

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-G12

<400> 13078

ccggattccc gggtcgaccc acgcgttcgc gtacgcgtgg gcggacgcgt ggggcttcgg 60
cgaccctgtc gagctccagc tccgcgacgc ctggctcaac cgcttggtgg tgcaggcgcg 120
cggcatggag cgcgcgtcgt gctacgtgct ttccacctgc cgcgtgcgct cctcggccgg 180
gttctgcacg cacttctgcc tcgcgcgggc gcagtgttc ggcgaccctg tcgagctcca 240

gctccgcaac gcttggtca accgctggc cggccgacgg tagccgcccg tcggcagctg 300
 ctgctactga tactactaat aggattcgat gctccaagga ccaaagcaa tgatgctgc 360
 tcttcgctgg caagaacgag gaagagaagc ttgcagattg gatttgaagc atgggaggcc 420
 aacatatctt t 431

<210> 13079

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-G3

<400> 13079

aattcgcggg tcgacccacg cggctctgtgg aattcacatg tgtttccttt agtttggata 60
 ctctgggaca ttttaagccgc atggatttgc aagaaacatg atatggtccc tggatgatga 120
 gcagccacca ctgaatcata atgataacgg aagcaaagtt tctgttgacc ttattctaaa 180
 accatctgaa gatgacctca agtgctggcc acattgtttt gagttccgtc tgaaggccct 240
 tttttcaaaa gatggggact tgtcattgat atcacgcatc aagaatgtca atggcaaacc 300
 attcaatttc tcatttgta atacacatat ctttc 335

<210> 13080

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-H11

<400> 13080

ggaattcccg ggtcgactca cgcgtccgcg gacgcgtggg gcaacataga aagcacaata 60
 gtgtaccaac aatggcagcc aaaatggttt gcttccttat gtccttggc ctttctgcaa 120
 gtgctgctac cgcaaccatt ttcccacaat gtcacaagc tcctatagct tcctttcttc 180
 ccccatacct ctcaccagcg gtgtcttcag tatgtgaaaa cccaattctt caaccctaca 240
 ggatccaaca ggcaatcgca gcaggcatct tacctttatc acccttggtc cttcaacaac 300
 cgtcagccct attacagcag ttacctttgg tgcatttggt ggcacaaaac atcaaagcac 360
 aacaactaca acaacttggt ctaggaaacc ttgctgccta ctctcagcac agcagtttct 420

<210> 13081
<211> 82
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-H12

<400> 13081

ccggttcgga attccaggct acgactcacg cgcacattgc accaagaaat ccatcgtgag 60
gccttctaca ggggaattaa tg 82

<210> 13082
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-H3

<400> 13082

acgggtccgga ttcccgggtc gactcacgcg tccgggacaa gttcgggcat gtttcttcaa 60
agaggaaggg acaaggttat tcgagtaatt gagaagagga ttgcagatta taccttcata 120
cctgtagatc atggagaggg actccaagta ctgcattatg aagtcgggca gaagtatgag 180
cctcactttg attattttct tgatgagttt aacaccaaga atggtggtca gaggatggct 240
actcttctga tgtatctatc agatgttgaa gaaaggggag agactatttt ccctgatgca 300
aatgtgaacg tcagttcttt accatggtac aatgagcttt cagagtgtgc caagagagggc 360
ctttctgtca aaccaaagat gggagatgca cttcttttct ggagcatgaa accagatgcc 420
accct 425

<210> 13083
<211> 100
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-A10

<400> 13083

tttaagttaa gtttcatttt tagttttttt ttttaattcta tttttttttt ttttatttta 60
taattctcaa catctactat accatttttt cccttttttt 100

<210> 13084
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-034-Q1-K1-A11

 <400> 13084

 cgggtctcgga attccccggt acgacccaag cgttcagctc tacgccaccg tcatgagtgc 60
 cttcaggccg gatcacctgc gccgccgccc ggcgttcttg cgggacctct cgtccccgat 120
 ctctctgctg ttctgcctcc caccggcctc gatgctggga gaggcgcagg cctccacccc 180
 gccgccgctt ccgccgctgc tctccctcga cgacctctcc cacctctccc cctccaggca 240
 gccggccacg cctccgcagg cgacgaagac cccctcgcct cagccccgcg gtggagccgt 300
 tctcttctcc tcgccgctgc ggtccaacgg ctgcgcgggg ccctcggcat ggtggacccc 360
 ctcgagggag gagaatccca gggagggatc accgatggat ggcgctcgtgc agtaccagca 420
 gcagtccccg 430

<210> 13085
 <211> 436
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-034-Q1-K1-A4

 <400> 13085

 tggattttgt agccttctta cttcagatgg caacactaag gatgatctta gactccgagc 60
 tgatgagact cttgtggccc agattaagga agggttcgaa agcgggaagg atcttgttgt 120
 gactgtccag tctgcgatgg gggatgagca gatctgcgcg ttgaaggatg ttggcccca 180
 gtaacttcct tggctttgga gacggaaccc tactgtatct caacttaa at cggaaaagaa 240
 gtgtatcacc aaaggattgc taccgagaca ttcacctggc ttgagctggc ttttgctata 300
 gcgtgcaagg ggttgctggg tgcgtacct acctgactta tcattatctg tggttacatt 360
 ctggaccctg tattttctat gctttcatgt ctctctactt tctagtatta attatcaata 420
 agttggtttg gaatgg 436

<210> 13086

<211> 542
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-034-Q1-K1-A6

 <400> 13086

 gtaccggttc tcggaattcc cgggntcgac tccacgccgt nctcgagcgc agctannngct 60
 actgcnctnn actctcaact nnnacaacaa cntntgcttc ccatttttaa cncagattg 120
 gggcnnngca ctgannnacc ccggnctgct taaatttgca gcnanngcaa atacctttac 180
 taccannttt agccagctta nngctacagc aannngccgt gccttnncct tctnntgaca 240
 cnaacaaca ngnnttgctg cncggttcta aaccagcagt nnttgccggt ttaaccccn 300
 ngcaaccctt tcttaccxaa ctacccaaca attnnngttg cccttttggt cnccaacttg 360
 gcnntttgac anannaccca gnnccagctc ctttaccac caaccacat cattgnngtg 420
 gtgcccttct tttagaattg gcttaattag atgtnaattc aatanannta aagttttttg 480
 ggatgaaatg tatgtggcca tannncagaa ataaaaaggt tacaaatttc cagaattctt 540
 aa 542

<210> 13087
 <211> 134
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-034-Q1-K1-B6

 <400> 13087

 aaaaaaaaaa aaaaaaaaaa aaaaaataa aaaaaaaaaa aaacaatata aaaaagggcg 60
 agcttaaaaa cacaacata caacataata aaatcaacta tgatgtcacc taaatgcaat 120
 taactgtccg ctga 134

<210> 13088
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-034-Q1-K1-B7

 <400> 13088

tgaattatt gtttctctc ctgttggtc cttccgtgaa accgttcttg agaagtgggtg 60
 ccgcactgtc atgagcaagt cacctaacaa gcacaaccgt ctgtacatgg aagcgcgccc 120
 cctggaggag ggtcttgctg aggcaattga tgatggccgc attggccac gtgatgatcc 180
 taaggtgcgc tcccagatcc tctctcaaga gtttgggtgg gacaaggatc ttgccaagaa 240
 gatttggtgc ttcagacctg agaccaccgg tccaaacatg gttgttgata tgtgcaaggg 300
 agtgactat ctcaatgaaa tcaaggattc tggttggtgct gggttccagt gggcatcgaa 360
 ggaggtgca ctggctgaag agaacatgcg cgggatctgc ttcgaggtct gcgatgtcgt 420
 tcttcatgct gat 433

<210> 13089
 <211> 86
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-034-Q1-K1-B9
 <400> 13089

tccacgcgta cgctttccaa aaattaataa agtacatttc tagaaaaaaa taccaagaga 60
 taaggcctac ttgaattct tagagc 86

<210> 13090
 <211> 372
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-034-Q1-K1-C1
 <400> 13090

ccagaaagta actgaggagt gataaaacga caattttgag cttcaacgct ttgctaggtt 60
 ggcaaaaaac ttaaagcaac agagtgttca agctaattgt ttggtgctag aaaaggcttt 120
 aatgcatcag gcttgtgttc ctgtgttgga taatgcttag agaagtttag cagtataat 180
 gcttcactat tcgaaaatca gtaaaaagtt tagaccattt atgtgacatt tttggatagt 240
 tcctatgttg tggtgcaacc attactata ttaactgtat attttcacat ggtgggacag 300
 atagaggact tcatagtgtt cattcgaaaa aaaaaaaaaa aaatatgaac aattaatata 360
 aaaaatatgg at 372

<210> 13091
<211> 163
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-C3

<400> 13091

tcgagagcta ctcaggtgat tttgtcgtgg gagcaccaaa agcagaaaag aactggtggt 60
gtctttctctc tctctagatt ctgacgagtg gtgggtctgca ctgcgtcgtaa tgtcgtttgc 120
ctaaactgat tttgatggaa caggaaatct tgctggtcct gcc 163

<210> 13092
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-C9

<400> 13092

tcccggtcg acccacgctg tcgacgcatt cgatgtttcg caaaatcgta ctaagtcacg 60
tcacctgcaa gaaaatatgg gtaggggttg gagagaaccg ggtcgtgtgt cgcctgaacc 120
agctaaagga aacgattcct tggatctgtg gattaccagc aacttcaagg aatctaagag 180
caatgatgtt gcgagaacta atgcctgatg tgatggatgg caggattttg ccagttttga 240
tcaagctcac agaattacta aagctcatgt ggaaggacat gttctaaaag atccttcagg 300
cgctgaaact ttggacttat gggcctcaac tcatgttaat gaaaagaacc ttgaacagat 360
acgtgaacat aatgatctat tcgatgactg gcat 394

<210> 13093
<211> 421
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-034-Q1-K1-D11

<400> 13093

cccggtcg acccacgctg ttcgccaatg ctngtatattg tagccctcaa gcatgatggt 60

ccaagtgtgt acccaaggca cgtgagagta cgtggccttg tgcttgatgt accgcggtga 120
 tgttgcttcc aaggatgtca acgctgcagt tgcaaccatc aagaccaaga gaactgtcca 180
 gtttggtggac tgggtgcccc ctggattcaa gtgtggcatc aactatcagc caccctctgt 240
 tgccctgga ggtgacctgg caaagggtcca gcgtgccgtg tgcattgatca gcaacaacac 300
 cgccgttgcc gaggtgttct caccgatcga ccacaagttt gaccttatgt acgccaagcg 360
 tgcattcggt cactggatat tccgtgaggg tatggaagag ggtgagttct cagaagcccc 420
 t 421

<210> 13094
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-E1

<400> 13094

ggttcggaat tcccggctcg acccacgcgt gcgccgacgc gtccggacca tacatctcac 60
 ttccgcaaaa aaatttcgtc aacagtggaa ggtataccca tggcaaaact actcttgggt 120
 ttgctccttg cccttgctat tctagggaca acatcggctg ctggttgtgt acaagacgcy 180
 gaagacatga aacgagagtg caagcagttt gagctattcc cagcgaaccc aaagttgcca 240
 ccgtcggcag catgttgtgc tgtgtggaag atggcagatg ttccatgcct atgcaaatat 300
 gttaacaagg aagtagagaa ggtatgggtc atggagaaag ttgtgtacgt atccaactat 360
 tggaagaggc cgtttcaacc ttgtacaag ttctgtaatt attcaatttc ttttatta 418

<210> 13095
 <211> 401
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-034-Q1-K1-E10

<400> 13095

cccgggtcga cccacgcgtt cggccgagcc ttccgccaag ccttccggtc aaaacaaaag 60
 ttaacggggg cccaaaccgg caaaggccat ttccatccaa atcgccgaga aggggaagcc 120
 aaatcgatgg cggcggcggc ggccggcggc gagaacagcg gcgcgggcgc ggtcgcgggc 180

gagggcgagt tctacctgcg gtactacgtg gggcacaagg gcaagttcgg gcacgagttc 240
ctcgagttcg agttccgccc cgacggcaag ctccgctacg ccaacaactc caactacaag 300
aacgacacca tgatccgcaa ggaggtcttc gtcttccctt tegtcttcg cgaggccagg 360
aggatcatnc aggagtccga tatcatgaag gaggacgaca g 401

<210> 13096
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-E2

<400> 13096

cgctcttcac ggccgtccta ctctgagggc ggctgctgct gtccgcaaag gtcgggcccgg 60
tggcgggtggc cgaggcgagg acgtgccagt cgcagagcca caggttccgg ggccccctggc 120
tgcgccggtc caactgcgcc aacgtatgca agaccgaggg gttccccggc ggcaggtgcc 180
gcggtctccg ccgacgtgc ttctgcacca cgcactgaca ctgattcgct cgcccagcgg 240
ccggctggcg tcgacgtcga tcgcgcgcgt cgcgaccagt ccatggctgc atgcatgaat 300
aacaaggggtg tgcagttcgt gatgccaaat tgtatgctct cgtcacgtgt tgaagcgttc 360
gatcgctcgt ctagtagcgt gcctgtgagc agcggcgtgc t 401

<210> 13097
<211> 442
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-034-Q1-K1-E6

<400> 13097

accggttctc ggaattcccc ggtgcgactc cagtcgntt ccgcaggatc acctcgtgaa 60
aattacttct ccagtgttgg aagtatttcc cacttgggaa atgagaagggt gttccattga 120
ngaattgaga tnttgggtcca aaagatctgg caaacaaca aggtgcgtgt tgtccgcccgg 180
gacaactggt gcaaaagggt gacattccct gtgaccaatt tgggtgaaga ggtaaagtg 240
ttactggatg agattcaaaa aaatctgttc aaaacagccc aagaaaagag agatgcctgt 300

gttcatgtcg tgaacacttg ggatgaattc acaactgctc tgaataacaa aaagttgatc 360
 ttggctccat ggtgtgatga agaggaaatt gagaaagatg taaaaactcg gacaaaaggg 420
 gaaacttgga gctgcgaaaa ca 442

<210> 13098
 <211> 68
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-G11

<400> 13098

cccacgcgtc cgagcatgtg cacttttatt tattttattg gtaccatctt gctaaaggaa 60
 aggaaaaa 68

<210> 13099
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-G7

<400> 13099

aatctcatca attttcttgt aaaaattcct atggattgct ttctctcgta caagtttagag 60
 aaaaataaca aaaggattgc aattcacagc cacctctaatt tcgagtacgg aagaagccac 120
 ctgcagctgc agagatcctg aagctcaact gcgatgcttc acaatcggcg tgattgggtc 180
 ctacacccat aagagccggg ctgcgcccga cctgcacccc agtcaatgct tccactaagc 240
 ctgcgcacag ctagccaagc tatcaatcat gcgatatatg cgttcattac aacataacac 300
 tgttcattac aacataacac tctgaacata tgcaagccat cagttttcac cgtttcacca 360
 tcctaattgtg ggtctttatt gacccgagtg tactggacta ag 402

<210> 13100
 <211> 371
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-H11

<400> 13100

cacgcgtacg atgacataca aatccctggg atgataaatt cttcgactag cagcgcagag 60
 ttcttgcgca cggtgacagt gaattattgg agctgctaact actgtgaagg gcattatctg 120
 aactgacatg gccagcaact ctgaataaga gagacatatt cagggaagta ctcatggata 180
 ttgaccatt atcactctca aaattaagtg acaataagat tatagtacct ggaagccata 240
 tcataccatt gatatccgta cataatctga gccgtgttat tgatatcgca caccactac 300
 tgatgatcat atacgaatac gcatcgctg acacatactg ccgtatccta ctgaatcaca 360
 tgcttatatt g 371

<210> 13101
 <211> 471
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-034-Q1-K1-H2
 <400> 13101

taccggtaat tcccgggtcg acccagcgt tcggcctcag atcgctccct gcctctggtc 60
 acctcgcttc cgctcccggc tcccctccgg gcaggcacac atcgctccgtt cgctcgccaa 120
 gagacaggac cggagaccat ggcggaccag ctcaccgacg accagatcgc cgagttcaag 180
 gaggccttca gcctcttcga caaggacggc gacgggttga tcacaaccaa ggagctcgga 240
 actgtcatgc gatcactggg tcagaacca accgaggctg agctccagga catgatcaac 300
 gaggtcgaat cggacggcaa cggcaccatc gacttcccgg agttcctcaa cctcatggcc 360
 cgcaagatga aggacaccga ctccgaggaa gagctcaagg aggcgttcag ggtgttcgac 420
 agggaccaga acggcttcat ctctgcggcg gagctncgnc acgtgatgac c 471

<210> 13102
 <211> 415
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-034-Q1-K1-H9
 <400> 13102

tagaaagcac aatagtgtac caacaatggc agccaaaata ttttgctcc ttatgctgct 60
 tggctcttct gcaagtgtg ctacggcgac cattttcccg caatgctcgc aagctcctat 120

agcttccctt cttccccgt acctctcacc agcgggtgtct tcggtatgtg aaaacccaat 180
tettcaaccc tacaggatcc aacagggaat cacagctggc atcttacctt tatcaccctt 240
gttcctccaa caatcatcag cctattaca tcagttacct ttggtgcatt tattggcaca 300
aaacatcagg gcacaacaac tacaacaact tgtgctagca aaccttgctg cctactctca 360
gcaacagcag tttcttccat tcaaccaact agctgcattg aactctgctt cttat 415

<210> 13103
<211> 451
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-035-Q1-K1-A10

<400> 13103

accggttcgg aattcccggc tcgaccact cgtccgagca acatagaaag tggaatacag 60
tatcaacaat agagcaacaa tggcggccaa gatgttttcc atccttatgc tccttgctct 120
ttctgcatgt gttgctaacg cgaccatttt tcctcaatac tcacaagctc ctatagctgc 180
ccttcttccc ccataccttc catcaatgac cgcttcagta tgtgaaaacc cagcccttca 240
accctacagg ctccaacaag caatcgcaac aagcaactta cctttatcac ccctgttctt 300
tcaacaatcg ccagccctat ctttggtgca gtcattggta caaacatca gggcacaaca 360
gctgcagcaa ctctgtctac cagtgatcag ccaagtagct ctggcaaacc tttctcccta 420
ctctcagcaa caacaatntc ttccattcaa c 451

<210> 13104
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-A5

<400> 13104

accacgcgt ccggaccaag gagatgaaaa gatagaatca cgaggcctgc gcagagtcct 60
gagccgctgc gaccgtacgt gactgtacta cggctcttga tcggacggag ctggcatgca 120
ctggctgcct atactactct ggaccgctaa cgtcccacgg ttacaatcga ttttctgctt 180

ggatacgtgg atgcatccgt cagagtctct aactacttag acgtatgaac ctactgacga 240
 ggctactgag cacactcatt accgcaggca tttcaggtac gcatgtacta catactgcat 300
 gtacttagac acatatgaca gtcactatct tgagagcgag ggctatactg tgctgacata 360

<210> 13105
 <211> 410
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-035-Q1-K1-B10
 <400> 13105

tgaaagcttc agcttcggct tgcaaggatg agtgggtggt ctgtcgtgtg ttcaacggga 60
 ccaccgggat caagaagacg gctgcgccgg cataccaggt ggccatggcc ggtgctgaga 120
 tggatcagaa tcagaacaac attccggcca tccccatccc catgccgctg cagctgccac 180
 tgcccgtgcc catgcagatg caatttccca tcttgccaga ttttgtcatg gacccggtgg 240
 cccctacta cccaaccca aatgccggcg ccgggatgat gccgcctatg gcggccggta 300
 ttggcggcgc cggcgggctc cagatcaacg gcgcctgtt cggcaatccg atgcccgcg 360
 cgttgccgat gaactttctac caccaccaga tgggcatggg ggcagcagct 410

<210> 13106
 <211> 447
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-035-Q1-K1-B6
 <400> 13106

aagcacaata gtgtaccaac aatggtagcc aaaatatattt gcctccttat gtccttggt 60
 ctttctgcaa gtgctgtctac gacgaccatt ttcccgaat gtcacaagc tcctatagct 120
 tctcttcttc ccccatacct ctaccagcg ttgtcttcag tatgtgaaaa cccaattctt 180
 caaccctaca ggatccaaca ggcaatcaca gcaggcatct tacctttatc acccttggtc 240
 ctccaacaat catcagccct attacatcaa ttacctttgg tgcatttatt ggcacaaaac 300
 atcagggcac aacaactaca acaactcgtg ctagcaaacc ttgctgccta cgctcagcaa 360
 cagcagttac ctttggtgca attgttggca canaacatca gggcacaaca actacaaca 420

ctcgtgctag caaaccttgc tgccctac

447

<210> 13107
<211> 74
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-C8

<400> 13107

taccggtctc ggaattaccc ggggtgcgact ccaactgccgt ctcgcccacg cctgtccgcc 60

tcacgcctgt ccgc 74

<210> 13108
<211> 490
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-D8

<400> 13108

accggttcgg aattcccggc tggacccacg cgtccggatt gaggatcggg ttgaggagga 60

atgttacagt gaggcttcag aaggagatga tgaggcagat gatgcttata ggcagtagga 120

ggccatggga atgcagtgtt gttagtggct cttctgcttg tagttccatt tgtccctggt 180

caagtgttgc ctggagaact ggcagagaaa tttggttgac atcgaacaat ctgacttcgt 240

gcggtccttg accctgggtg gaagtgttcg cttcagctaa aacagctcca gctgcggcct 300

ctctctgcag atcattgtag catcagcagc gctgccaagg gattagtgtt tgcatectat 360

gatgcaacca taatatgttc atgcagcaac tcagttcagt tgtactgttt gactcgagaa 420

atgtaacacg ctgtactgtt aaaccaggtg atcctattgg tgtctcggcg tcccaagttc 480

tgtgacactg 490

<210> 13109
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-E10

<400> 13109

tgcagtcacg aggatccgaa gaatcacccct ggtaaccgga atctcaagtg ccagacgggt 60
 tgtgcccttg atcacattta tttttctaata aatgttcttt ataattattt attcatgcat 120
 aggcttaatt ttgatgggtc ccaatagggtc ccaatagggt agttttgcta ttgcattatg 180
 tggttttggg attaatatta cattatatcc atgttccaat tattatgta tgttatttat 240
 gttcatgtca agatcattat ctttaattgg aacgtggagc ttaacttggg aaacatgtgc 300
 caccacaagg gtggaatggg acgcccttgg ctaactaatt aggaaagcta gtggaagact 360
 accttaccgg aaaggggcaa gggcagtagg ggagttgcac gcaagga 407

<210> 13110
 <211> 498
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-035-Q1-K1-E7

<400> 13110
 accggttcgg aattcccggg ctgctgtctt caatagggtc agcagatttg ggaagcttca 60
 ggggtattcag tgtgcactag caggtaggaa ccttgacatg aggttcactt gtagtactgg 120
 agatgccatg ggaatgaata tgggtgtcaaa aggtgttgag gatgtcttgg gctacttgca 180
 gaatgatttc cccgacatgg atctcatcag cctatctggt aactattgtt cagacaagaa 240
 ggctgcagct gtaaaactgga tagaagggtc cgggaaatct gttgtttgtg aggccacagt 300
 caaaggggga gttgtgcaga gtgttcttaa gacttctgtg caaaaactta tcgagcttaa 360
 tattgtaaag aatctcgctg ggtcagctgt agccggagct cttggagggt tcaatgcca 420
 tgcaagcaat atcgtaactg ccctgttcat tgctacggng caggatcctg cccaaaatgt 480
 tgaaagctcg cagtgcac 498

<210> 13111
 <211> 451
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-F7

<400> 13111

ccacgcgtcc gctgcattat acctgacgcg gtgtatgctt ccacttacc tctctctccc 60
caggcggctg caccatcggc ggggtagcat ctgtgctaca agggctattg caatggcctc 120
ttcacagttc gtcggcgga acgcggttcg tctctcggtc gcgcccattg acctcttact 180
gaaactgcac aagggcgaca tcacctctg gtccgtccac tgcgccaccg acaccatcgc 240
taatgctgct aatgagccaa tgtaggtgg cctatgtgtt gatcgaacta tacatcacgc 300
tgctggacca tagctagtgc aagcatgcct gaaagttcca aatgtcaaac caggagtccg 360
tttgctact ggagaagctc ggattacttc tgctacagag cttgctgctc ctcgactgat 420
tcacactgtt ggacctatat atgatttga c 451

<210> 13112
<211> 123
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-035-Q1-K1-F9
<400> 13112

accacacata cgaaaacaca taaaaatttt aaaacgcaag caaaacaata tagagaaggc 60
gagcttacaa acgacaggca tgcaacacaa tacactataa tataacgaaa cctaaattca 120
ttt 123

<210> 13113
<211> 479
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-035-Q1-K1-G3
<400> 13113

cccggactta ctggctggac ccacgcgtgc gtacgatcag tacaatccct tcagatttgg 60
ccaaaaatgt gaagatcttg caccctgatg tggggaataa ctttattgag aggagtccag 120
atttgaaggt actttctgaa ttgcgtact tgaggaacct taatttgcag ggaaatcctg 180
ttttcaagaa agacagtctt gtcaaaaagg ttaagaaatc tgtgccaacc ttgcgcatac 240
tgaacgcaaa gcccttagag gccacctcca agagtgatac gaggtctaca aaagagaatc 300
ctcctagcaa agatgaagac ccattggga ttgatgcaaa gaaagataaa aggaagggat 360

ctaaacaaga ggtaaagggc cttgaagagc ttgaagtcca gagtgtttct acaggtatca 420
ccacttcgaa ccctggtaaa cttgaagtgc cagacggtaa ggaaaagaaa aaggtcaag 479

<210> 13114
<211> 437
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-035-Q1-K1-G8

<400> 13114

ggttcggaat tcccggctgg cgggacccac gcgtccgagg acgcgtgggc ggacgcgtgg 60
gttacaacaa ccaatttccc agttgcaaca gcaagccttg gcacatctaa caatacaaac 120
catcgcaacg caacagcaac aacaattcct accagcactg agccacctag ccatgggtgaa 180
ccctgccgcc tacttgcaac agcagttgct tgcacaaac ccacttgctc tggcaaactg 240
agttgcaaac cagccacaac aacagctgca acagtttctg ccagcgtca gtcaactagc 300
catgggtgaac cctgccgnct acctacaaca gcaacaactg ctttcatcta gcccgtctgc 360
tgtggccaat gcacctacat acctgcaaca acaattgttg caacagattg taccagctct 420
gactcagcta gttgtgc 437

<210> 13115
<211> 438
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-035-Q1-K1-H2

<400> 13115

taccggtccg gaattcccgg ctgcagcat gcgcggacgc gtgggttcgg cctctgtccc 60
ttgcaagttc aatctcacct ccaaccatgg gtgagagaga agtcccacat caacattgtg 120
gttattggcc atgtcgactc tggcaagtcg accaccacag gacaccttat ctacaagctt 180
ggaggcattg acaagcgtgt gatcgagagg tttgagaagg aagctgctga aatgaataag 240
cggtccttca agtacgcgtg ggtgctcgac aagctcaagg ctgagcgtga gagaggatc 300
accattgata ttgctctgtg gaagtttgag accaccaagt actactgcac ggtcattgat 360

gcccttgac accgtgactt catcaagaac atgatcactg gtacctncca ggctgactgt 420
gctgtcctta tcattgac 438

<210> 13116
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-A10

<400> 13116

tccacattca ttggtggccc atcaaattgg tagtgattgg tctgatgttt tgtttcccag 60
tttctagata tttagcataa acatttgctc gacacaagtt ttttttgcca actggtcctt 120
ttttttttgc catgtaggga cccatattct aaaggagtta cattaagatc cctcaaaatt 180
tctgatttgc cgggtactgt taacattggt tacatgttat gggttttctt cttgcatgct 240
aactctcagt aacacctctg tgatgtactt gcagtcattt ttttggttgg catttttggt 300
gctcattgat gattaaaata tggcatgcca ttctccactg tttctgcttt atagccatgt 360
ttttaggagg gcagacctag tgccggagag gctcccatat gaagtgggtc tggagaaggg 420
ataaac 426

<210> 13117
<211> 419
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-036-Q1-K1-A6

<400> 13117

aagcaaggag ggaaggccaa gccgctgaag gcgccaagg ccgacaagaa ggagtacgag 60
gagacggatc ttgcatatct gcagaagaag aaagatgagg aaaaagcact gaaggagctt 120
aaggccaagg cacagaaggg cgcgattggg ggctcgggtc tgaagaaaag tggaaagaaa 180
tgagactggt caccgtctc caatacctag aggatgataa ggcagctgtc tatctgtggt 240
gcgcttcact aagtgtgatt gtaacagtgg tacctcttgt gttctgtggt ccgcgatggt 300
gcagttgggt gcttgatcga aagatgtttc aacctcccat ctgctagcta tgatacagat 360
gtcccctga taataatgat gacatattct gtgatggatg ccacagcatt ntttgtttt 419

<210> 13118
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-A7

<400> 13118

tagcaacata gaaagcacia tagtgtacca acaatggcag ccaaaatatt ttgcttccgt 60
atgctccttg gtctttctgc aagtgtgct accgcaacca ttttcccaca atgctcacia 120
gctcctatag ctctctttct tccccatac ctctcaccag cgggtgtcttc agtatgtgaa 180
aacccaattc ttcaacccta caggatccaa caggcaatcg cagcaggcat cttaccttta 240
tcacccttgt tctccaaca accgtcagcc ctattacagc agttaccttt ggtgcatttg 300
ttggcacaaa acatcaaggc acaacaacta caacaacttg tgctaggaaa ccttgctgcc 360
tactctcagc aacagcagtt tcttccattc aaccaactgg ctgcattgaa ctctgctgct 420
tatttgcaac aacaactacc attcag 446

<210> 13119
<211> 250
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-B2

<400> 13119

agaagagacg ctgatctact tataggtcgc agttgacggt gtagctgggtg gttttgccgg 60
gaggaactct tggtagtttg agctgtgcga aagcttttaa gtttacattt actcaccact 120
ccatgaacgg caacgaagta ttcatacgtt agaaaagtgc acctataatt ttgggttgctt 180
ataactttct atttgtcaga gatttaactc gaaggacctg taactaggaa agttaatttt 240
gcttggaata 250

<210> 13120
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-B8

<400> 13120

aagcaacata gaaagtggaa tccagtatca acaatagagc aacaatggag accaagatgt 60

tttccctcct tatgtctcctt gctcttttcta catgtgtttgc taacgcgaca attttccctc 120

aatgctcaca agctcctata gcttccctttt ttcccccata ccttccatca attatagctt 180

cagtatgtga aaaccagct cttcaaccat ataggcttca acaagcaatc gcagcaagca 240

acataccttt atcgcccttg ttgtgtcaac aatcgccagc cctatctttg gtgcagtcac 300

tggtacaaac catcagggca caacagctgc agcaactcgt gctacctgtg atcaaccaag 360

tagctctggc aaacctttct cctactctc cgcaacaaca atttcttcca ttcaaccaac 420

tgtctacact gaaccctgct 440

<210> 13121

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-C10

<400> 13121

cccacgcgtc cgtacagtag caacaaaagt acaacaatgg cggccaagat attttccctg 60

cttatgctcc ttgctctttc tgcattgtgtt gctaacgcga ccattttccc tcaatgctca 120

caagctccta tgtgaaaacc cagctcttga acctacaggc tccaacaagc aatcgcgagg 180

aacaacttac cattatcacc cttgttcttt caacaatcga catccctatc tttgggtgcag 240

tcattggtac aaaccatcaa ggtacaacag ctacaaaatc tcgtgctacc tgtgatcagc 300

caagtagctc tagcaaacct ttctccctac tctcagcaac aacagtttct tccattcaac 360

caattgtcta cactgaaccc tgctgcttat ttgcagcaac aacaactact accattcaac 420

tagctagct 429

<210> 13122

<211> 475

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-C5

<400> 13122

aattccccggg tcgagacaca cgcgtgcgcc gacgcgtacg attgacacca actagcaaca 60
tagaaagcac aatagtgtac caaccgtggc agctaataata ttcagcttcc ttatgcttct 120
agatcactct gctatagctg ctaccgtaac cattatccca cactgctcac aagctactat 180
agcttacttt cttcccccat acctatcacc aaccgcttct tcataattac gaaaacccaa 240
tcctttaacc ttacacgata caacatgcaa tcaatacaac gtatttcacc tttatcaaac 300
ttgttctctc aacaatacca agtettacta cagtagctac ctcaaacca tttgcttact 360
cacaacatct gggtacatta aatccactaa ctatggctaa ctatgctgcg tacctactac 420
aacgaccaca ggtacttaat acattggcaa ttgcttacc ataactctgc tgctt 475

<210> 13123
<211> 445
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-036-Q1-K1-C7
<400> 13123

tcgtctcctg ctcttgc tca actatgcata cttgctttca taaaagtgcc caagcctggg 60
ggataacttt gttcaggaag caccaaattt tttaagtaaa tgtttgttca gtacctcaaa 120
tcattccccg ccatgatcca agaacccttat tctctcttgg gggagaattc aaaggacaca 180
ggagaccgga aatgttctct atatggactc tctggtgaat ccagacacag agtgtcatat 240
acactatcat gctctaggaa aagctcttgc ccctctcaag agacgcgaga tatgacactc 300
tagagagagg gacacctctc tgaacctgga acagttccag gacaaggcaa agaaggaaag 360
gctgcggatt tggcagtagc gagatgttga atcggacgag gacgagcagg ccccgcttgc 420
aaggaagcct ggaggtcgtc ggtag 445

<210> 13124
<211> 350
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3059-036-Q1-K1-E5
<400> 13124

acccacgcgt ccgatgatcc agaggagcaa cacaacaacc atgttgtaga ttgcttggtg 60
 aatgtatggg gctcaatctg cctaagatca tgacaacatt gttgctgcaa tacctggcag 120
 ctacttggtt gtatcaaacg tgattggaga aaaggcatta ccaaagggtt gcaactgctgc 180
 cttaggaatt catgacaatt ttttttagatt tgagctactg ctatagtact tatagctgca 240
 ccttgtaact tgctgctgct cctggcaatg acattgatgc tgttggtgatt tttcctggcc 300
 ctgctgatat tgctgangct gntgtggatg ctgctgcttg tcatgaccct 350

<210> 13125

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-F6

<400> 13125

ggaattcccc cgaggagcca cgcgtccgcg ggcattgctt atcacattgt tgacttcata 60
 acgaaacaca tcgtcttcgg atcttgcatt attagttccg tcgtgcgggg atgctgctgc 120
 taccagcagc atccagaaga agacgtcgtg gccggagggt gtccgcatgt gcataatgga 180
 tgcgacggat actattctca aggacatgcg caacgcgtac atccatctgc tctcctgctg 240
 gataccccgt gacgtgaac cttcggcctt accgcgttcg tatcttcgta gacacagatg 300
 acctgactcc tacagttgaa cgatacatac catgggcaat ctacataccc tactttccat 360
 tgcattgttc cacttaatac taaacaacgc cttaacttct tacttggtgct tacttggaag 420
 gcgtt 425

<210> 13126

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-F9

<400> 13126

tccgcgcttc ctccggactg tgggtccgtt cgctcactcc tgtgcccccg ccgattccgg 60
 tcatcctttg ttggaaggaa cgatggagca gaccttcatt atgatcaagc ccgactgcgt 120
 gcatcggggc ctgatcggcg acatcatcag tcgcttcagg aagaaagggt tctacctcaa 180

ggggatgaag ttcatgaacg tggacaggtc cttcgcgag cagcactacg ctgacctttt 240
 cgacaagcct ttcttctctg ggttggtgga gtacatcatt tacggccccg tcgttgcgat 300
 ggtgtgggag gggaaggacg tcgtgttgac tggccgcatg atcattgggg ccaccaggcc 360
 ttgggaggca gaccccggtg ccattcgtgg ggactacgcc gtggaa 406

<210> 13127
 <211> 446
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-036-Q1-K1-G12

 <400> 13127

accgtccgga attnccggtg gaacacgctc cgagcgtgga ttcgagcgcc aagggccgct 60
 tttccccagc ctcgggggaa agccgtagtg gaccgttacc atgtgctcgt cgggacaggc 120
 tccactcagc tctttcaggc cgtgctgtac gcgctctcac ctgcaagtga cggcacaccc 180
 atgaacgtcg tctcaccggc accgtactac tcgtcttacc catctgtgac caactatcta 240
 aactctgcgc tctaccgttg ggctggtgat gccaatatcat ttgatggcga cacatgtatt 300
 gagctcgtct gctccccaaa caaccctgat ggcgccctcc ggaagcctgt catcaaattcc 360
 aagtctagca cgctgtata tgacttcgcc tactactggc cgcagtacac acccatcacc 420
 gaggcagctg cccatgacat catgct 446

<210> 13128
 <211> 467
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-036-Q1-K1-H4

 <400> 13128

cggttcggaa ttcccgggtc gacccacgct tcggtcgtgc ccgcacgtga gcgggctcgc 60
 cgcgctgctc cgcgcggcgc acccgagtg gggcccggca gccatccggt cggcgcttat 120
 gacgacggcg tacaacgagt accccggcgg cggcaacggc atcctggacg tggccacggg 180
 gcggccggcc acgcccgtgg acgtgggcgc cggccacgtc gaccccgca aggccgtcga 240

ccccgggctg gtgtacgaca tcgcgggcggc ggactacgtg gacttcctct gcgccaacaa 300
ctacgaggcg gcgcagatcg cggcgctcac caggcagcac gcgtccgaag ggtgcagcgc 360
caaccgcacc tacgcggtga ccgcgctcaa ctaccgctcc ttctccgtgg cgttcccggc 420
cgncggcggc acggcgaagc acaccgcac ggtaaccaac gtcgggc 467

<210> 13129

<211> 409

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-036-Q1-K1-H6

<400> 13129

aaatcaaaat atatccatga gcattcatgc aaaaacatct tgaattcctt ttactatcac 60
atgctgaaaa tgaggggatac caagagaaca gttcgtacgt gtcacatctt acaagtgtat 120
tacaccagta cacatacagt ctcagctttg agagcgttgc gacacacaca tcacagctag 180
cacggcgggtg ccaactgcc agtcacttgc ctagcactgc gaactcttgc taatactcgc 240
tatctacctt tgagttcttc ttcaaacatg cgcattttct cctggatcgg cgccaaaaag 300
gacttgagat ccttgcagat ccgtgttcta tcatcagacg cgaggccctt gtcacgcgcg 360
aaccttactt gtacctncaa gtcacgatc tcgccgaatg aaaactcgg 409

<210> 13130

<211> 481

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-A3

<400> 13130

taccggtctc ggattcccgg gtacgacacc acgcgtgcgg acgcgtcctc cggacgcgtg 60
ggcgggtctcg ttggctctcg gtgctcttct acaccaggt ccttcctaac atcttctgca 120
accgcggcaa gctctacgag ttctccagca cgcagagcat gccaaaaaca cttgaaaagt 180
acaaaaaatg cagttttgca gggcctgaaa cagcactcca gaatagagag aatgagcaac 240
tgaaaagtag ccgcaatgag tacctcaaac tgaaggcacg tggtgataat ttacagcgga 300
ctcaaaggaa cttgcttggt gaagatcttg agtcattagg cataaaaagag ctggagcacc 360

tggagaagca gctcgattcg tccttgaagc acataagatc tacaaggaca caacacatgg 420
 ttgatcaact gacagaactt cagaaaaaag aacaaatgtt ttgtgaagca aataagtgtc 480
 t 481

<210> 13131
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-A4

<400> 13131

tgctcaagta ctaccagggc gtgattgaca acatgtacaa aagtgctaag tgaactcagg 60
 gtacagtaca catcccgatg aagattccca acgttgaatc ttgtttgagc agccagaagt 120
 tctgctttgt atatgctcgt agtttgtatg cgagaattct ttcctgtatc agttttttca 180
 gaaacgattt gccttgggca tatatatagc aaaaccggca atgtggccag cagccaagt 240
 gagacaccgt ttcaaattga ttgaactatg gcgaatactg attgacagaa gggttagggc 300
 atgcttggtta cctttaccag gtactattct acctggccga gcaaattgat taaggccaac 360
 tgtttggatc caatttaggc cttctttgaa atgtgggatt tttttcccat ttcctatgta 420
 tttcctgtga aaataaactg attc 444

<210> 13132
 <211> 322
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-037-Q1-K1-B3

<400> 13132

cgttcggaat cccgggtcga ccacgcgttc gcccgatgac ctacagctat gatgccgtct 60
 tagtcgaacc ttgcttattg gcctcccggtt gctcgctgtn accatcctct gcacccatgt 120
 ccggtccgnc ttcgcggagt tctgggtcga cgagttcacc acggacggcg acgtncgcag 180
 agactacgac cgttctggcc ggcaggtggc gtcgcttgct ctcgaccagc gttctggcgc 240
 tggcttcaac tccacgcgca agtacctctt cggcgagttc agcgtggaga tgaagctcgt 300

cggcggcaac tccgctggga ct

322

<210> 13133

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-B5

<400> 13133

tattgagacc aacaagcaac atagaatgtg gaatccagta gcaacaacag agcaacgggg 60

gcgaccaaga tattttccct ccttatgtct cttgctcttt ctgcatgtgt tgctaacgcy 120

acaattttcc ctcaatgtct acaagctcct atagcttccc ttcttcccc ataccttcca 180

tcaatgatag cttcagtatg tgaaaaccca gctcttcagc cctataggct ccaacaagca 240

atcgagcaa gcaacatacc tttatcacc ttgttggttc aacaatcgcc agccctatct 300

ttggtgcagt cattggtaca aaccatcagg gcacagcagc tgcagcaact cgtgctacct 360

gtgatcaacc aagtagctct ggcaaacctt tctccctact ctcagcaaca acaatttctt 420

ccattcaacc aactgtctac actg 444

<210> 13134

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-D10

<400> 13134

ggagattctt cactgccgat ggtagcttgg gttccacgct gtggcttgtg ctgaggcgat 60

tgatcccggg aatagtattg gttgcagttt gtgtgggtta cttcatgcac agcagtgttg 120

aagagataga ctgcatcaac tgttagttga gcagggtatc tgtgctcacc ttctgtcctt 180

tttcagggtga gtgtttatcg ttgtatagat ctgatgagta ctacacgtat ttgttggttg 240

tgtgggttga ggacttgagg gcgaagtatt cacgtgtact gtactgttaa acttgacttg 300

tctaatagtt gcttccactg tctcaaaaaa aaaaaaaaaa actaaatata aaaaaataac 360

cgaaagttta c 371

<210> 13135

<211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-037-Q1-K1-D11

 <400> 13135

 taccgcgacc attttcccgcc aatgctcaca agctcctata gcttcccttc ttcccccgctg 60
 acctctcacc agcgggtgtct tcgggtatgtg aaaacccaat tcttcaaccc tataggatcc 120
 aacaggcaat cgcagctggc atcttacctt tatcaccctt gttcctccaa caatcatcag 180
 ccctattaca gcagttacct ttggtgcatt tattggcaca aaacatcagg gcacaacaac 240
 tacaacaact tgtgctagca aaccttgctg cctactctca gcagcagcag tttcttccat 300
 tcaaccaact agctgcattg aactctgctg cttatttgca acaacaacta ccattcagcc 360
 agctagctgc tgcctacccc caacaatttc ttccattcaa ccaactggca tcattgaact 420
 ctctgctt 429

<210> 13136
 <211> 302
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-037-Q1-K1-E10

 <400> 13136

 cgaccactc gtccgggggt ttcaatctct gcaaccactg tctaacaaca aagacaatga 60
 tgaaattttc attaagctct tttatgacaa ggatgacaag aaggaaaatg cttagcttaa 120
 tgagcgtgcc aagaactctg tcatcattaa caaattcctt aaacctactg aaggatatat 180
 gtactacggc agacttcacg gtctaagtct ccgagatcat cgtcatacat ttagatgcct 240
 atactaaaag gcatacatc atgctccatc tactgctgct ccatacattg aatatcaacc 300
 tc 302

<210> 13137
 <211> 470
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-037-Q1-K1-E3

<400> 13137

ttccccgggtc gacccacgcg ttcgcgagaa agggcaaact ggggggggacc taccggaagt 60

ccgaggcagg gcaaaaaggc cgggtgccnc ctcccggcgg ttggcgggct cgtgccacgg 120

tgcggtagcc ccgtcgacgc cggcggacag cgtgcactat gggttgcttc ttcttcgggc 180

cagctaggaa atactgaagg gctgaacact atcagcaacg atagctctcc agacgccagt 240

tcaaaggact tgcgtgctaa gttggtattg ctgggagact caggtgttgg gaaaagttgc 300

attgttcttc gttttgttcg tggtcagttt gatcctactt ccaaggtaac tgttggcgca 360

tcttttttat cacaaacatt ggcattggag gattcaacaa tagtgaagtt tgaaatttgg 420

gatactgctg ggcaagagag gtatgctgcc ttggcgccac ttactacaa 470

<210> 13138

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-E7

<400> 13138

tacaacacaa acagtgagaa attattagta aagtgtgcat tgtggtgcgg ccaactgtgcc 60

atgtccgaac caccgggcaa gggcccgtgc cttttcgaac cttcccggtc ccggattgcc 120

ttcaaccgga aaggccaagc cttaagaacc aacagttcca agccgccgat ccgaagaact 180

tcgcaatccg tactctgttc cggccttgaa ggaaggggat ggtcgccgat tttatgccaa 240

tttactcgcg cccacgcgcg cgagtctttg atcgatgtgt ttgtacagtc gaaagagcat 300

tgctttacat aggaccattc atatatatat attgatcttc cctcccttcc tcttcccgcg 360

ggccgtcaga ggcaatttcg cctcgcattc gaccccgatt cgttcgcccc cgaccgggat 420

tcccttcggc aagcgcggat ctg 443

<210> 13139

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-F5

<400> 13139

tgtgacccta cgtcagccgc gtcgcgtcgc atcctacgat ccaaagctct ctctgctggg 60
 aggtcgcagc catggcgaag aactacccga ccgtgagcgc cgagtacagc gaggctgtgg 120
 acaaggccag gcgcaagctc cgagccctca tcgccgagaa gagctgcgcc ccgctcatgc 180
 tccgcctcgc gtggcactcc gcggggacgt tcgacgtgtc gtcgaggacc ggcggtccat 240
 tcggcacgat gaagcatcag tcggaattgg ctcacggcgc taacgcgggg ctggacatcg 300
 cggtgcggct gtcgagccc atcaaggagg agttcccaat cctctcttac gccgatttct 360
 accagctcgc gggagttgtg gccgtggagg tcaccggtgg gcctgagatt cccttccacc 420
 ccggtaggga agacaagcc 439

<210> 13140
 <211> 122
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-037-Q1-K1-F7
 <400> 13140

aatcaaagga tgcgccaaat gcttgcagac tccagtgagc aggactgcag tatacactga 60
 cattgaggca gtaatattaa tgttgataga gagaattaa tacatctctt tgtttttgaa 120
 ct 122

<210> 13141
 <211> 461
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-037-Q1-K1-G10
 <400> 13141

cggtttcggg tccccggtgt ggaccacgc gtccgccac gcgtccggtc gaaactgctg 60
 catatcggca ccctggagtt gagcagtacg ctggcaggtc atttgctgat gcattagatg 120
 ctgttccact agccttggct gaaaacagtg gtttgtcacc aattgatacc ttgaccgcgg 180
 taaaagctca gcaagttaag gagagcaacc cccactgcgg catagactgc aacgatgtag 240
 gcaccaacga catgaagag cagaacgtct ttgagaccct gattggcaag cagcagcaga 300
 tcctgctagc aactcaggtg gtgaagatga tcctgaagat cgacgacgtc atctcaccgt 360

ccgagtactg atgaagcctg aaggaaggag gaaaaaaaaa gagaggaaca ggtggctatg 420
 ctggatgaga gtttagtagg cagcattgct gatgtgttga t 461

<210> 13142
 <211> 439
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-037-Q1-K1-G11
 <400> 13142

ccggttcgga attcccggtc cgaccactc gtccctcgac tcgtgggcgg actcgtgggc 60
 gttctcgtgg gaaaaaaaaa aaaaaaaaaa aaatggaaaa taaaaaaatt aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ggccggcctt ttttaagggtt 180
 ccaacttttc tcccccttcc ttccaacttc ttaccttttt tttagtgtcc cctaatttca 240
 tttcattgcc cttcttttta caacttcttg actggaaaaa ccttggcttt acccaactta 300
 ttccctttgc atcaactccc cttttcccca gttggcttat taccaaaaag ccccgcacca 360
 ttgcgcttcc ccaacatttc ccagcctaa ttggcaattt gaacccccct tttaccgtcc 420
 ctttaacccc ggcggtttt 439

<210> 13143
 <211> 406
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-037-Q1-K1-G5
 <400> 13143

atagaatgat cgtcattatg ttcacgcca aactgatgc ttccataaac ataacagcac 60
 aagcaaaagc atccaactac agccggctgt aggtttccag tagtttcaga ttatccggag 120
 ttcttagcat gtaacatcat taaaaaaaaa caaaactcta tagttaatag ggtggtattg 180
 tgccgaaacc cgcttggcaa gaagcttccg aaggaccaac agaactagcg cagaaagcag 240
 tatctgcgca agcatataat cgaacaaatc taggactgga tggtcacaaa cctcgagaga 300
 tacatcggca tcaaacgcag ataatgcaac cacaacacat cttatcagga agcaggtaac 360
 acaaattgct gtcacagtcc caacctcata aagcttcttt tgccgc 406

<210> 13144
<211> 470
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-G8

<400> 13144

cggaattccc ggctcgacgg accacgcgtc cgcaccgctg cctccaccac ctagtttgcc 60
acctttacct ccaaggcctc caatgcagtg cggatatgct agctcctgga gtcattgagat 120
ttccaccacc tccgccacca ccagattcaa ggccatcgct tatggcggct ggagttaaca 180
ggccccctcc acctcctcca ggatttccac cgtctcaaat gccaatgcca ccgatgggtg 240
tgctccctgg tccgccgccc atgcttaggc ctccattttt gccaggacct cctatgcaac 300
tagatgagtt tgctgccttt gcccgaaggc ctcaattacc tcagcagcca tcatactga 360
agtcggctgc cccaacagtt gtgaagagac cattagcaca gcacactcct gagctgacgg 420
ctatgggttc tgcattcagtc cgtgtcaaga gagaatctgc tctccccaag 470

<210> 13145
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-G9

<400> 13145

ttggcttctc ctccccctcc ggttcgggtt cgggttcgtg aggttctccg gggttcgggt 60
tcgtgggtga gcggatcgag atggcggcgt cggatgttga gtaccgctgc ttcgtcggcg 120
gcctcgctg ggccacggac gaccactccc tccacaacgc cttcagcacc tacggcgagg 180
tcctcgagtc caagatcatc ctcgatcggg agacgcagag gtcccgcggc ttcggcttcg 240
tcaccttctc cacggaggag gcgatgcgga acgccatcga gggcatgaac ggcaaggagc 300
tggaaggccg caacatcacc gtcaacgagg cccagtcccg cggcggccgt ggaggcggcg 360
gcggtgggta cgggtggtggc cgtggaggcg gcggctacgg cgggtggcagg cgccgtgatg 420
gcggtggct 429

<210> 13146
 <211> 250
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-037-Q1-K1-H10

 <400> 13146

 tccccggctcg agaccacgc gtccggtgtc gaaaagggtcc tagggagatc agtgcagtga 60
 aggagaaagt tcttagcgag aacgaacatt tcaaattttc tagggggccac atatattatt 120
 ggtccatcct tattcaacag tttcacaatt ttattttata cacactacac aatgccttcg 180
 atacaaaata ttacttttcc aagttgatac atcctattca tttcctgtcc aattgacctc 240
 tccattctct 250

<210> 13147
 <211> 389
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-038-Q1-K1-A10

 <400> 13147

 cggaattccc gggctcgact ccacgtcgtc tcgtaatgcg catcgagaaa gggccgctga 60
 caggggggat attaatgggt cgtcgnntcg tctagccagt cagctcacgc gtccgcgctg 120
 caaatcctcg tcagctcgtc cgtccctggc tcnttccgtg ccctcgtcgg ctggtccatg 180
 cgtccatgcg tccgggaccc ctcttggtcg tgtccggggg ggggccccat cccgcatcaa 240
 ctctcgcttc ccgagtctgc cccgtggta cccgtgactc agccccggac cctgcgntng 300
 catcgggccc gtcgcccttt cccgtggccc cggagccctg aagaaggaga tgcnttngcc 360
 gggagcctgt ngcggacatc nncggcgt 389

<210> 13148
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-038-Q1-K1-A12

 <400> 13148

cggatccagc cgaacccccct cgcagtcgca gccccctcac gccacgac atgggcaaga 60
 tcaggatgcc cgtgccgtcc ctgttcgcc gccgctctc caagccgccg ccgccgcagc 120
 cgcagcagca ggcgcctgcc gcggggcgacg gcgacggcag cgggtccccg gagcgggcga 180
 cggcggagga ggagatggcg cgcgtgttcc gcaagtcca cgcgaacggc gacgggcgga 240
 tctcgcggtc ggagctggcg gcgctgttcg agagcctggg ccacggcgcg tcggacgacg 300
 aggtggcgcg catgatggcc gatgcggacg cggacggcga cggcttcac agcctgcccg 360
 agttcgcggc cctcaacgcc acggtggcg gcgacggcg cgctctagag gatccaagct 420
 ta 422

<210> 13149
 <211> 403
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-038-Q1-K1-A3
 <400> 13149

cacgcggacg cgtgccaaat aaaaggaaaa agtgaggcat cccagaaga atgtgatcag 60
 gctgtggagt gcctcagcac tgcaaaagct aaggctaaag ctaaacaggt acaagaatct 120
 ctgaagggtg gccaatcaat tatacagaaa ttttgggcaa gagtactgtg tgtcggccct 180
 gctcttcacg ctgatgcttc aatgagcagg gctgattgtg cagcaaaact taagcattgg 240
 acggatgaat tcgcttgtag actgcagcac tactggtag ggacaaaact actctgcgca 300
 gatgttagga tctcatcaag attgctggtg aaacttgctg ggggaaaagc ctttcaagat 360
 tagacaggcc acaatttgac acgcacaaca gcatatatct cca 403

<210> 13150
 <211> 243
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-038-Q1-K1-A5
 <400> 13150

tttgcatgca tatgcattat catatacgca gtcgcgtagc aggttttctt atggtttagcg 60
 cttgagctga ggggggaggg aaggagctgt ttgcttttgc tgaagaataa tgggtgtagtc 120

ggctgggggtg aggcgatgtg cgttgccaga tacagttttg tcttggtgac tctacttata 180
 tgattatcat ttgtaagcga tttgctcaag ttatttgctg tttatgaata acttgctttc 240
 ctc 243

<210> 13151
 <211> 236
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-A7

<400> 13151

agatgcgaac caagtccttt ttttaaaaaa aagtgacaat gaactacctg tgtattagga 60
 gatacattat tttcagctta actctaata tatttacatc tcatgtaggc tcttcccaaa 120
 cttatacagc agagctgaag acaagaaatg accgtgaccg tgaagacata atgataacat 180
 cctagtttac atttacta ttctgcactc tatgccatgt atacagttcc agtaaa 236

<210> 13152
 <211> 294
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-A8

<400> 13152

ctatttcggt tgcttttttt ttgtagaatc tggaaatgta acttcttatt tatgcatggc 60
 cacatacata atccaaataa ctttattatt gaattacaac taataagcaa tttaaaatac 120
 ggcaccacca atgatgcatt gatgttagca agcctacttg tttgtcaaag caagttggac 180
 aaacggcatc aattgtcgta tttctaaata accagcgcag agagccacac gtatcatgtc 240
 accatttgtg cttaagcaat attttctaata agattatcat ctgaatcttg gaac 294

<210> 13153
 <211> 221
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-B1

<400> 13153

tttttagtcc acaacagggg ggggcattag atcactaacc atcccttatac tgataataca 60
gccgaattgc aaatagttca tgacatatgc tacataattg acatctaaca ttaaaagtgc 120
ctaaaacaca aatagcctac ctttgaaatg gcaaccttag aaaagaactc ttattgacct 180
gataggaaaa gttccaata gttaacacta taggcaaaag g 221

<210> 13154
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-B10

<400> 13154

cggattcccc ggtcgaccag cgttcgatcc gcacctataa tatctgggct ttaaaaaccc 60
cactaaccga acgcactagc ggcgcccgtg caacaatggc taccaagata ttatccctcc 120
ttgcgattct tgccctttta gtgagcgcaa caaatgcggt cattattcca caatgctcac 180
ttgctcctag tgccattatt ccacagttac taccaccagt tacttcaatg ggcttcgaac 240
accagttgt gcaagcctac aggtacaac aagcgcttgc ggcgagcgtc ttacaacaac 300
caattgccca attacaacaa caatccttgg cacatctaac aatacatacc aatcgaacgc 360
aacagcaaca acagttccta ccaacactga gccacctagc catggtgaac cctgccgcct 420
acttgcaaca acaact 436

<210> 13155
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-B2

<400> 13155

ccgggtcgac ccacgcctac gaaagaagcc aagccagggg ctggtcactt aatcctgcgc 60
aagaacttgc ttttggagaa aaaaaccccg gaagccatta tggaaggagg tgcccgtgcc 120
agccaaaaaa ggaccgtgct tgtcaccggg gccttcggct tcgtcggctc ctggctcgtc 180
atgaaacttc tccaagccgg ctacaccgtc cgggcgaccg tgcgcgatcc cgcgaacgtt 240
gggaagacca agcccttgat ggaccttccc ggagcaacgg aacgcctgtc catatggaaa 300

agccgacctg cggaagaagg cagcttccac gacgccatca ggggctgcac cggcgtcttc 360
cacgtcgcca cgcccatgga ctctctgtcc aaagaccctg agaatgaggt aatcaagccg 420
acggtggaag ggatgataag ca 442

<210> 13156
<211> 52
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-B4

<400> 13156

gaattcccgg gtcgaccac gcgtacgcc acgcgttcgc ccacgcgttc ga 52

<210> 13157
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-B8

<400> 13157

gtctctccac caagcttttc gtggctctcc tctgtctcgt ttgttacacc gggacgcaag 60
gcggggccggt gactatggtg tcggcgagga agtgcgagtc gcagagcttc cgcttcaagg 120
gaccttgctc gagggacgcc aactgcgcaa acgtctgcct gaccgaaggt ttcaccggcg 180
gcgtgtgcaa gggcctacgc caccgtgct tctgcaccag ggactgctag tactgcctcg 240
cctcgtgtcc tgcgtgtgca tatatagccg cagcggatca gtaaaacatg catgcatgcg 300
ttaccaaata tttggcagta ccagcaagtt aatgaattaa aatattaaat aatatgtcat 360
ggaaaa 366

<210> 13158
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-B9

<400> 13158

ccggaattcc cgggtcgacc cactcgtccg cccactcgtc cgagaccaac aagcaacata 60

gaaagtggaa tccagtagca acaatagagc aacaatggcg accaagatat tttccctcct 120
 tatgtcctt gctctttcta catgtgttgc taacgcgaca attttccctc aatgctcaca 180
 agtcctata gcttcccttc ttcccccata ccttccatca attatagctt caatatgtga 240
 aaaccagct cttcaaccat ataggcttca acaagcaatc gcagcaagca acataccttt 300
 atcgcccttg ttgtttcaac aatcgccagc cctatctttg gtgcagtcac tggtaaaaac 360
 catcatggca caacagctgc agcaactcgt gctacctctg atcaaccaag tagctctggc 420
 aaacctttct cctactctc agcaacaaca att 453

<210> 13159
 <211> 71
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-C12

<400> 13159

ccgctccgga attcccgggt cgacccacgc gttcgccac gcgttcgccc acgcgttcgc 60
 ccactccttc c 71

<210> 13160
 <211> 378
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-C5

<400> 13160

ttgttttgggt tttttttttt tttttttttt tttttttttt agctaagccg ccaaaataag 60
 aatttggggg agcaataatg tcaaaagcgt ctttttttta ttggaggcag tactttattg 120
 acctccgtga acaaaaaatg atcccaccag aggactggta agaggattcc atcataagtc 180
 actgactaac tggggtgagg agctttacaa catgctacca tgtattgcaa tcgcttttcc 240
 ccacaggagg ttccataaact gggctcgcat tatataagaa gttagccaac tttcctatgc 300
 agcagaagag ttcaacctta gcatgcgaac ttcccatgca tttatgctat gtataactcg 360
 ttttaataccc aaaattaa 378

<210> 13161

<211> 367
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-038-Q1-K1-C8

 <400> 13161

 cgaccacgc atccgaagac gcttgctgat ctagctatga atagctgata gtccttcaa 60
 agagcaggac agcattgatc tgaccctaga ctacgcgaac actatagcac tttctattat 120
 taagcaaatt atagaggata agatcacccc tatcaacgct gatattcca aggttgcttc 180
 caagtaccac ctctacaccc atgccgacgt cgaatcctag atctctaagc tgtgaaacgc 240
 tttcgtagct cgcgatatac atgtcatcaa tcacctatag acgaaccttt taaaaatcgt 300
 agacatccta tgatcttgat tatacctgtc atcttactct gttgttaact cctcaatgac 360
 aatctat 367

<210> 13162
 <211> 78
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-038-Q1-K1-D12

 <400> 13162

 gaggggggaa atgcacgcct ggattccggg tcgaccagc gtccgcggtc gcgtgggcgg 60
 acgcgtgggg caaattct 78

<210> 13163
 <211> 457
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-038-Q1-K1-D4

 <400> 13163

 gaattccggt cgaccacgc gtacgctcag tccttgctc tggacccaaa ctgcgtgttt 60
 caaatgcagg aaaggcattt ggggctgggg tagatgccat tggctattcc tatgccgtga 120
 tgccatccgc caaggatctt gtgcctgaaa ctcacctca ctttatcggc acctactgga 180
 gcatccacag caccaccttc tgtgcgtaga ttgttagta cgcagatgcc tacctctttg 240

cacgccccat tttgaatgac tacagctctg ttggctactc attgctactc aagaaggaaa 300
aggccatcat catacaacct gagcgcgatga taatggcgaa tgggtccggca ttctgatgtg 360
tgatgatgaa agagttcttg tctgaattgg ctaacagggtg taataagaac accactgact 420
atgagaatta ccagaggatc tttgaatctg atggcca 457

<210> 13164
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-D6

<400> 13164

aagcaacata gaaagtcgaa tacagtatca acaatcgagc aacaatggcg gccgagatat 60
tttccatcct tatgtctcctt gctctttctg catgtgttgc taacgcgacc atttttcctc 120
aatactcaca agctcctata gctgcccttc ttaccccata ccttccatca atgaccgctt 180
cactatgtga aaaccagca ccttcaacc tacagggtcc aacaagcaat cgcaacaggc 240
aacttacctt tatcaccctt gttctttcaa caatcgccag ccctatcttt ggtgcagtca 300
ttggtacaaa ccatcacggc acaacagctg cagcaactcg tgctaccagt gatcagccaa 360
gtagctctgg caaaccttc taactactct cagcagcaac aatttcttcc attcaaccaa 420
ctgtctacac t 431

<210> 13165
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-E4

<400> 13165

tccggaattc ccgggtcgac ccacgcgtac gcccacgctg tcgcccacgc gtccgtccac 60
gcgttcgacc acgcgttctc ttacgaaagg gctgttgac aggaaaaaac cgagcaagaa 120
acagggtcac gggctcctaat cagtgatggc acagtcacta ttgttgctaa aactcaagaa 180
attatggata aagctattga gaagggtgag ttctctgtgg gacgtgaaat tgaagttggt 240
cgtacatata aaggaattgt ttcttcgatt aaggagtatg gcgcttttgt ggagttcaat 300

ggtggacaac aaggcttact tcatatttcg gagtagtcac atcaaccggt tacgaaagtc 360
 ttggatgttg aaactcttgc gcaatatctg tctatgagat gcattggaca ggacatgcgt 420
 ggtaacatta aaattttact taaagcaacc 450

<210> 13166
 <211> 178
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-038-Q1-K1-F12

<400> 13166

ggaattcccg gctcgaccca cgcgttcgcc cagcgtgcg tccacgcgtn cgactggacc 60
 ctggtgggta tttgcagcaa caactattac catgtaacca ggtaggtact ggctaatttt 120
 aagaacaacc acttgttgca ttttaacccat tgggcggaat ggaaccggt ggttattt 178

<210> 13167
 <211> 122
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-038-Q1-K1-G11

<400> 13167

cccacgcgtn ccgaaaaaaaa aaagaaaatt taaaataaag ggccggcggt ttaaagggtc 60
 ccagcttacc ttcccctgca tgccaagtca taactcttct ataggggcac ctaaattcaa 120
 tt 122

<210> 13168
 <211> 102
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-G5

<400> 13168

accggtctcg gaattcccggt gtacgacgcc acgcccgtcc ggtctacagc ttacagtgcc 60
 tatcacgcac caagtgggcc tacatggaga agggctctcg ca 102

<210> 13169
 <211> 270
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-038-Q1-K1-H12

 <400> 13169

 cggttcggaa ttcccggctc gaccacgcg taccgggggt acaatgccgt tgtagctcg 60
 tttagaagag tatcggtat gtgcaaggga tggcgatatg cattcaacca acttgctttg 120
 acaaaccag cagcgttcta ccaacaaccc atcattgggtg gtgccctctt ttagattgct 180
 tatgagttat agttcaataa taaagttggt gtgatgatgt ttgtggctta ccagagataa 240
 gaaagtacag ctctagatgc ttatgtgcaa 270

<210> 13170
 <211> 394
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-039-Q1-K1-A1

 <400> 13170

 ggaattcccc ggctcgacgcc acgcgtccgg gaggagcaag gagcacgact cgatgggtca 60
 ctccaacggt tggaactcgc accctaagaa ctacggccct ggctcccgcg tctgccgggt 120
 ctgcgcgaac cctcacgggtc tgatcaggaa gtacgggctc atgtgctgca ggcagtgtt 180
 ccgcagcaac gccaaaggaca ttggtttcat caagtaccgt tgaagaggcc actgtgctgc 240
 tgtggagaac ttctacatc aaagaaatgg gtccttcatt agaaggccta atttatgcgc 300
 tntagctttt tggtcagaac ttgagactca tgtgttaaac tcgacttggt aaagttttga 360
 tggctacttt gtgcttggtg gaccagcttt aatc 394

<210> 13171
 <211> 331
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-039-Q1-K1-A11

 <400> 13171

aattaccggc tcgacgcacg cgtccgcagg cacacagcaa cagagactcg aactttgaag 60
gatcctccat aacaagcagc cttggatcca cctaaatggg tgctcatgca aactcaatac 120
agccaggctt ctttcttatt ccaaccactt atattaacca ttacttgatc tctgatgcta 180
caactggaat agcgtatgga cttgcccaca tagaatatgc ctatacacct gccactatca 240
cctgcaaatt taaccattca agatccacag atatacacia tgttggtcct catgaatc 300
agaatggtcc ttcaacgatc tgtcgacgac c 331

<210> 13172

<211> 190

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-A2

<400> 13172

cccacacgta cgagaaaaaa acaaagggtta actttaacgc taggaactca cacactgaga 60
acgagcaggc ctggctgtct agagggccca agcttaacta accctgcatt ccaagtcctt 120
agttttccaa cggaggatct gaaatcaatt aagtggccgt aactttacaa acataggacc 180
gggaaaaaacc 190

<210> 13173

<211> 179

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-A3

<400> 13173

cggaattcgg gtcgacgcca cgcgtccggc ctggctgaga tgtacggcaa gaactctcgc 60
ctgagggagc tggcgaacct cgtgagcgtt gccggcgacc acggcaagga gtccaaggac 120
agggaggagc aggcggagtt caagaagatg tacagcctca tcgacgagtc caagttgaa 179

<210> 13174

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-A4

<400> 13174

cggaattccc ggctcgaccc acgcgttcgg agaccaacta gcaacataga aagcacatta 60
gtgtaccaac aatggcagcc aaaatagggt gcttccttat gtccttggt ctttctgcaa 120
gtgctgctac cgcaaccatt ttcccacaat gtcacaagc tcctatagct tcctttcttc 180
ccccatacct ctcaccagcg gtgtcttcag tatgtgaaaa cccaattctt caaccctaca 240
ggatccaaca ggcaatcgca gcaagcatct tacctttatc acccttggtc cttcaacaac 300
cgtcagccct attacagcag ttacctttgg tgcatttggt ggcaaaaaac atcaaggcac 360
aacaactaca acaacttggt ctaagaaacc ttgctgccta ctctcagcaa cagcagtttc 420
ttacattcaa ccaactgggt gcattgaact ctgctgctta 460

<210> 13175

<211> 220

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-A7

<400> 13175

cgacggcagc cgtccggccg acgcgtacga tcgtatgcca aatcttactg ctacaacgct 60
caccaatata caaaggtgac atggccacgc gccgccactg tcaaccactg ctactgctac 120
catccgtcgc cattgccgac aaccctgctt acgcggcgct gttccgccat acctgtcatc 180
agctgagcgt ttagaacctg aaaaccgact tgatcaactc 220

<210> 13176

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-B8

<400> 13176

aactactacc attcagccag ctagctgatg tgagccctgc tgccttcttg acacaacagc 60
agttgttgcc gttctacctg cacgctatgc ctaacgctgg caccctctta caactgcaac 120
aattgctgcc attcaaccaa cttgctttga caaactcaac agtggttctac caacaacca 180
tcattggtgg tgccctcttt tagattgctt atgagttata gttcaataat gaagtttttt 240

ggatgatggt tgtggcgctc cagaaataag aaagtacatt tctagattct tatgtgcttc 300
tagtctccaa atgtggctga tagttatttt gctctaagat cgggagtaat gaagtaaaaa 360
aaaagatata acagaagaca aacactgaag 390

<210> 13177
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-C1

<400> 13177

attcccggtc cgagccacgc gtccggcgct agcagaacag aatgaggacg gtttttccat 60
ccttttttat ttgcaaaaaa tcgtgcccag atgaatggaa aaattttctt gaaaggggtgc 120
attgcgagag tgaagatcaa ctccacgaga ctgagcattc tgaagagcag cttcgccctt 180
gggcatacata ccgatgacaa actttgacaa gatctgtaag agggatgatg tactacagac 240
aagctatagt gcttcaggct tcccttgata tggccagaga tgatgacctt atggaggggt 300
ttagagcagc tgacctgtta tctgaatctg atg 333

<210> 13178
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-C4

<400> 13178

cggaattccc ggtcgacca cgcgttcgct ggacactcta gtaaagtga aaattcactt 60
atattcaaca catttgatt gtgccgggtg tgtaatgagg tcaattctcg taaaccagaa 120
gaactgaaca tcttttccgg agtttcaaga aatcatcttt tcttggcagt agtgagcata 180
actgttgatga tgcaagtgat aattattgag ttcctcgga aatttacatc aacagtgaga 240
ctcaactgga agctttggct tgtttctgta gttattgctt ttctaagttg gcccttggct 300
tttggttgaa aattcattcc agttccgaag actgaattga aagatctcat tgtaagggtg 360
tggcctaaac gtggcgagag tgcatacaca cagactcatg atgacagaat ggaagtacca 420
gtgtgaaact tgtcttgagc 440

<210> 13179
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-D1

<400> 13179

gaattcccg gtcgaccac tcgtccgtga tgctgaactg aagctggtcg gtgtgtatgg 60
tctgaggtgc aagcgtgagc tttggagggt ccagtatgca ctgagcagga tccgtaatgc 120
tgcaaggcac ttgctcacc ttgacgagaa gaacccccgt cgtatctttg aggggtgaggc 180
gcttcttcgc cgcatgaacc gctatgggct gcttgctgag ggtcagaaca agcttgatta 240
tgttcttgcc ctcaccgctg agaacttctt cgcaaggcgg cttcaaacac ttgtcttcaa 300
ggctggcatg gccaaagtcca ttcaccatgc tcgtgtcttg atcaagcagc gtcacatcaa 360
ggttggaag caaattggca aacgtccatc attcatggtg aggggtggaat c 411

<210> 13180
<211> 237
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-D11

<400> 13180

tattgactga ggttggttta accatgcgtg atacatgcag ccttgagcat acagataaga 60
taggcttggt tggtcttctt gtggttggtt atgatgtatc cagtgagtca ctcaacaact 120
ttggcgaaag cccagatggt ttcttgcaat ttttgaaaaa tattccgcgc cctgaaaaaa 180
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa agggcagacg atctaaaaga tccaaac 237

<210> 13181
<211> 91
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-D12

<400> 13181

agcaaatacga gttaagatgt tgccggttgt cattatatag caagaattcc atgacaaaga 60

ttgcttgga cttgattgct gctttggttg c

91

<210> 13182

<211> 154

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-D2

<400> 13182

ccggctcgag ccacgcgtcc gctgacctct gctgctccag agctcgtttt cacctgtcac 60

cggcaccctc gatcacgcgg tgcggcgagg taaggtcagc atgggtgagg tcagtgtgct 120

taacgatgag ctcaagtga tgtacaaacc tgag 154

<210> 13183

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-D9

<400> 13183

gacgcacgag tgcgagggaa cctcattagc aacattttta cttcaatggc taccaagata 60

ttatgcgtcc ttgcgcttct tgcacttttt gcgagcgcaa caaatgcgtt cattattcca 120

caatgctcac ttgctccaag ttccattatt acacagtcc tcccaccagt tacttcaatg 180

ggcttcgaac acccagctgt gcaagcctat aggctacaac aagcaattgc ggcgagcgtc 240

ttacaacaac caatttacca gttgcaacaa caatccttgg cacatctaac aatacaaac 300

atcgcaacgc aacagcaaca tcaattacta ccaacactga gccacctagc catggtgaac 360

cctgccgtct acttgcaaca gcaattgctt gcatcaaacc cacttgctct ggcaaa 416

<210> 13184

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-E1

<400> 13184

aattccccgg tcgacgcact cgtccggggt tggtttctcc tccccctccg gttcgggttc 60

gggttcgtga ggttctccgg ggtgcggggt cgtgggtgag cggatcgaga tggcggcgctc 120
 ggatgttgag taccgctgct tcgtcggcgg cctcgcctgg gccacggacg accactccct 180
 tcacaacgcc ttcagcacct acggcgaggt cctcgagtcc aagatcatcc tcgatcggga 240
 gacgcatagg tcccgcgggt tcggcttcgt caccttctcc acggatgatg cgatgcggaa 300
 cgccatcgag ggcataacg gcaaggagct ggacggccgc aacatacccg tcaacgaggc 360
 c 361

<210> 13185
 <211> 454
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-E4

<400> 13185

tcccgggtcg acccactcgt ccgcagctag caacatagaa agcacaatag tgtaccaaca 60
 atggcagcca aaatattttg cgtccttatg ctccttggtc tttctgcaag tgttgctacc 120
 gcaaccattt tcccacaatg ctcacaagct cctatagctt cccttcttcc cccatacctc 180
 tcaccagcgg tgtcttcaat gtgtgaaaac ccaattgttc aaccctacaa gatccaacag 240
 gcaatcgcaa caagcatctt accattatca cccttggtcc tccaacaacc gtcagcccta 300
 ttacagcagt tacctttggt ccatttggtg gcacaaaaca tcaaggcaca acaactacaa 360
 caacttgtgc tagcaaacct tgctgcatac tctcagcaac atcaagttct tccattcaac 420
 caactggctg cattgaactc tgctgcttat ttgc 454

<210> 13186
 <211> 284
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-F1

<400> 13186

ctcggaattc ccgggtcgac ccaactcgtc ggatgcggat gctgcagcag cagcaccagt 60
 aggcctacga cgaggatgag gacatgccgg tcggctcgca tagggtgcaa tgcgcacagc 120
 attatgcagc agtttggttag cggtgataaa atatttgacg gcggcgtaaa aatttggtgcg 180

actactgtta ggtccaaccg tccaatttta cacgcgcgta ttaatgttat gatcatactt 240
gtctttgttt aaaaaaaaaa aatactaaca aacaactaca cagc 284

<210> 13187
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-F10

<400> 13187

ttgtcgtgta aagaattggt ttcgctttgt ttgattgtca gaatttggca gcgaagaatt 60
gaatcgatgt tgaataccaa atcagtttag atattgaaat gggcatcaaa tcaaattctt 120
gtttggatgg acaagaattht ggtatgtaaa atcataggga attttccaat tccaatggat 180
gggctagaca ggggtccggc gtgaactgca cgattggaaa aaggtcagcc gattccaccc 240
aaaaggagtg cacggcctct gaattgtgcy cggccatggc tactaaaatg aacagtagtg 300
tggaattgga ttgcaatgta ttgcaattca gaataaaaca tcagcatttg cttcagccaa 360
taccatttcc tggattctga gtgccaatca tccaacggtg tgtaatatg ctctgt 417

<210> 13188
<211> 227
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-039-Q1-K1-F8

<400> 13188

cggttctcgg aattcccggc tegtaccac gcgtctcgca ccaacgtcaa attgcaccca 60
agaaatccat cngagaggct cgtcgacagg ggcaattaat ggtcgtcgtc gtctagcagc 120
agtcacccg gcgtcttatt ctgcgacagc ccgttctggt cttcgtgctc tcgggtgtca 180
gagccagcgc ccggacctcc tgcgtgcccc ggtgggcat accgcac 227

<210> 13189
<211> 224
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-F9

<400> 13189

cggtaggaag catgagctgg ctgtgcttac tcttgctggc agtggcagct accaacaagg 60
tcaagctggc agcgcccaac agtaggcaca acctcagagt gatctgcctg aataagtact 120
cgtagactgt aataattaaa caaagcttgc tcatgggttaa actgcgtgtt gattagtctt 180
tcaactacat agctctaaag tttgtgataa aaaaagacag acct 224

<210> 13190

<211> 362

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-039-Q1-K1-G1

<400> 13190

cgaattccgg gtcgacgcac tcgtccgcgc agaccaaca accgaggagg aaactcgagc 60
ttcaaataagg aaattttggg aaactgcttt ggggaccgtt gctggctgcg tgattttgta 120
catcatagcc atgggttggg gaaagagaag tggattactg caatgatgcg gaagcatgac 180
tgcatgagtg ttctgtaccc agtgaatact gggttcacia aaatctccaa aatgagagat 240
tcagcttggt cgctgcggct tgctgcggct gcaatccggc tgcagctgcg gcttctacag 300
tatttttctc tctatggatn gcagctgcag cagtccaaac agctgcaaca gtgtcggctt 360
gt 362

<210> 13191

<211> 234

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-G10

<400> 13191

aagaaaaaaaa aaaaaaaaaa ttaaaaatta aaaaaaaaaa aaaaataaaa acggaaaagg 60
ggaaatacta aaattaaaaa caaaggggct gccgttctag atgatccatg cttacgtaca 120
catccatgcg actgtcatag catcttctat ggtgtacctt aaattcaatt cattggacgt 180
ctttttccat cgttgcgact ggaaaaaccc tgtctttcac caaacttaat cgct 234

<210> 13192
<211> 174
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-G4

<400> 13192

ggattcccg g ctcgacgcc a cgcgttcgca gcatagaaag cacaatagtg taccatcaat 60
ggcagccaaa atattttgct ttcttaggct ccttgggtctt ttttgcaatg ctggtaccgc 120
aaccatttat ccacaatgct cacaaagctc tatagcttac tttattcccc cata 174

<210> 13193
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-G6

<400> 13193

accggttcg g aattcccg g ctcgacgcc a cgcgtccgatg atcttaggca gattgagcca 60
caatacattc accaagcaat ctacaacatg gttcagtcca taatccagga ggagcaacaa 120
caacaaccat gtgagttatg tggatctcaa caagctactc aaagtgcggt ggcaatcttg 180
acagcagcac aatacctacc atcaatgtgc ggcttgtacc actcatacta ccaaaataat 240
ccatgcagca gcaatgacat tagtggtggt tgcaattgaa gaattgtgtc tacctagccg 300
ttatactcct ataacggtgt taagcaataa agtaccatac att 343

<210> 13194
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-G9

<400> 13194

cccacgcgtc cgcccacgcg tccgcggtac tcgtgggctc ctgcctatgt acaggagcag 60
gaactactac cattcagcca gctagctgct gtgagccctg ctgccttctt gacacagcaa 120
caattgtagt cgctctacct gcacgctgcg cctaacgttg gcaccctctt acaactgcaa 180

caattgctgc cattcaacca acttgctttg acaaaccag cagcgttcta ccaacaaccc 240
atcattggtg gagccctatt ttagattgct tatgagttat agctcaataa taaagacttt 300
ttgatgaaaa accaacaaca cataattggt ggtgccctct tatagattgc taat 354

<210> 13195
<211> 468
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-A11

<400> 13195

ggaattcccg gtcgacggac gcgtccggaa ttccctgttc gaaccaatca gataccaaga 60
gaaatcccta cgaagaagta ctcagtgtc gtcatacttg gtgctggaac tctacctttt 120
ggaacactct tcatcgagct cttcttcatt ctttctagta tttggcttgg aaggttctat 180
tacgtgtttg gcttctctct tgtcgtgctt cttttgctga ttgtggtgtg tgctgaggta 240
tcacttggtc ttacctacat gcattctctgc gcggaggact ggagggtgtg gtggaaagct 300
ttctttgctt ctggaacagt ggccctttat gtgttccttt actctatcaa ctacttggtg 360
tttgatctca gaagcttgag tgggccagtt tctgctattc tctacattgg atactctttc 420
gttgactccc ttgccattat gctagcgact ggtaccgttg gctttctg 468

<210> 13196
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-A2

<400> 13196

ttcccggtc gaccgacgag tccgggagaa gaagaaggcc cgacgccctc gttgctgcca 60
ccaaaatcgc acgcgagccc gaggtatccc caaacgctac acgcgcccgc cggcgcactc 120
ggggaccgtc gaatcgagca ggttgacgga tgagaggaag cctcgaagat gttccggaac 180
cagtacgaca ccgacgtgac gacatggagc cccaggggac ggctgttcca ggtggagtac 240
gccatggagg ccgtcaagca gggctcagcc tgcgtcgggc tccggtccag caccacgccc 300
gtcctcgccg ccgtcaacaa gcccgaattc gagg 334

<210> 13197
 <211> 458
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-040-Q1-K1-A3

<400> 13197

tccggaattg gctcgagcga cgcgtccggc tccgacgtcg ttaccctctt cgcgcctctc 60
 cgcgcgggccc cggcccgaga gggccccac gcttttcagc ccggcgccga atccttctnc 120
 gccggcgacg cttccgcaca tgtggagcca caggtggacg gaactggctc cggcaccacc 180
 gtcgacttca agttctgcgc ctctgctcg tacaggggaa ctgcaatgac catgaaacgg 240
 atgctggaaa cctnctttcc tgggatccat gttgtcttgg aaaattatcc tccgccgttc 300
 cccaaacgcg ctctcagtaa agctgtaccc cttcttcagt tcggcgcgat ggcaacatta 360
 atggccggtg atcagatctt ccccaggttt ggaatgggcc cgcctccttg gtactactca 420
 ctccgcgcta atagatttgg gaccatggcg tcaatctg 458

<210> 13198
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-A7

<400> 13198

tgcttcttct atgtgcactc ggagaccgc gacatctgcg gagagacttc ctggcggcga 60
 ccggcgactt cgtgctgtcc caccagcaga cgctgccagg cttcactccg ccgggctcct 120
 acacgatcta catgaagatt gtcggggacg acaacgagga gctgagctgc atctcgttcg 180
 ggttcagcat cggcttcgtc gcgtccagct gaacacgtcc gagcccgggc acgagaggca 240
 tccagctcat ggatgtaatt acgtgaagca cactctgtat cctatgactt tttgtgggtg 300
 tctgtgttca actgagacgt ttttatccgg agttgaacat cacagtaaag caaagtcact 360
 gataccatgt aatggaactc tgagcgcttg atggggcccg tgtttttttag actcacaata 420
 aagccggttt 430

<210> 13199
 <211> 311
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-040-Q1-K1-B1

<400> 13199

 cggttcgtga attccccgggt cgagccacgc gtccgccgac gcgtccgggc gcgcaagctg 60
 ggcctgcagc ctccgccaggt ggccgtcttg gggggaaccg ccgcgcccgg tggaagacca 120
 agcagctcga gcgcgacttc gaccgcctca aggccctcct cgacgctctc cgagcggacc 180
 acgacgccct tcttcaggac aacaaccgtc ttcgctcaca agttgtgtcg ttgaccgaga 240
 aactgcaaga gaaggaggat gcgacggang gcggcgccac cgctgacacc gncgcngccg 300
 cgggtggacgt c 311

<210> 13200
 <211> 357
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-040-Q1-K1-B10

<400> 13200

 taccggttcg gaattccccg gcaaaatgtt cgcttatctc ttgtttttgc ttgcctcagt 60
 ctacttgcaa gatctgtgtt cagttgactg ggggtgcttct cagcttcttt gatgtgagga 120
 gattggcgca cgaaatcacg tagcagtagc tcttattccc cactcgcgtt ttaacctgag 180
 ctgcggcagt tggcattctt cattcagtcg taatggatgg gatagctcgt aataagggcg 240
 gtgcttcgcc tggtacagga aagggaaggg aagggaaggg aagtgatggg ggagtgcgag 300
 gacggcaagg agtacaggtg ctgggaagag ctgctgccgg acgcgctggg gctcatc 357

<210> 13201
 <211> 255
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-040-Q1-K1-B11

 <400> 13201

ggaattcccg ggtcgacgcc acgcgtccgc ccacgcgtcc gccacgcgt ccgcgattca 60
gcaaccgtgg ggattactga ccatgccgag gagcatttgg gtgatgttgt ctacgtggag 120
ctgccagaag ttggcgtcag tgtatcccag gggaagaact ttggtgctgt cgagagcgtg 180
aaggcgacca gcgatatcaa ttcgccagtg tccggagagg tggttgaggt gaacgggaag 240
ctaagcgagg aacct 255

<210> 13202

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-B8

<400> 13202

gtaccggttc eggattcccg ggtcgagcca cgcgtccgcc cactcgtcct ctactcgta 60
gtcttttacgc ataggccgac aagcacacgc tgagtgtcct ttcaaaaatt ttcgggctct 120
atctaatect actctacacc ctactctcct acccgccac gatcctggac ctcgagctct 180
ccatcctcgt caaccttcat ctctcaaatt ccatgatcac attcacagag ctgctgctta 240
caaacaccat cgatcccgcc tttgcgcgct tcgtccgcc cctccagacc cttgtcctcg 300
catcttcac tcacc 315

<210> 13203

<211> 471

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-B9

<400> 13203

ggaattcccg ggtcgacgca cgcgtccgga gaccaactag caacatagaa agcgcaatag 60
tgtaccaaca atggcagcca aaatatgttg cgtccttatg ctcttggtc tttctgcaag 120
tgctgtacc gcaaccattt tcccacaatg ctcaaacgt cctatagctt cttttcttcc 180
cccatacctc tcaccagcgg tgtcttcagt atgtgaaaac ccaattcttc aaccctacag 240
gatccaacag gcaatcgag caggcatctt acctttatca cccttggtcc tccaacaacc 300
gtcagcccta ttacagcagt tacctttggt gcatttggtg gcacaaaaca tcaaggcaca 360

acaactacaa caacttgtgc taggaaacct tgctgcctac tctcagcaac agcagtttct 420
tccattcaac caactggctg cattgaactc tgctgcttat ttgcaacaac a 471

<210> 13204
<211> 475
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-C10

<400> 13204

ccggttcgga attcgcggtg cgacccacgc gtgcgctcca gcactgaaca cttgagttat 60
tcagtaggta gctagctagc tgaatcagga tgggtcctac cgagttgcgg ccgtccacta 120
gccacgacac gacggtgacg acgaccaacg ctggcgctcc tgtgtggaac gacaacgagg 180
cgctgactgt ggtgcctcgc ggtcccatcc tgctggagga ctaccacctg atcgagaagg 240
tggcgcaactt cgcgcgggag cgcctcctgg agcgcgtggt gcacgcgcgc ggtgccttcg 300
ccaatggctt cttctagtgc acccacgaag tgacgtcgct gacgtgcgcc gacttcctgc 360
gcgcgcccgg agtgcggaag cccgtgatcg tgcgcttctc gacggtgatc cagcagcgga 420
ggtccacgga gacgatccgt gacctccgca ggattgtctt gaagttctac accct 475

<210> 13205
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-C11

<400> 13205

ggaattcccg ggtcgacgca cgcgtccgcc tccggaagcc tgtcatcaaa tccaagtcta 60
gcaagcctgt ttatgacttc gcctacgact ggccgcagta cacacccatc accgaggcag 120
ctgcccataa tatcatgctg ttcactgtct ccaaattcac cggccatgcc ggcaccaggc 180
tgggggtgggc attggtgaag gatactaagg tggctcagaa gatgatcaag tttatagagc 240
tcaacacaaat cgggtgtatcc aaggactctc aacttcgtgc cgctaagatt atcggggcaa 300
tatgtaatgg ctatgagccg gtaccatcct ctggtaaaac aagccaactc ttccatttcg 360
ccaaggaaaa aatggcgggt cgctgggcta gacttcgtgc agctgtggca gcctcagaca 420

tcctttactct tccttatgag ctatctggct attgtagctt t

461

<210> 13206
<211> 466
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-C4

<400> 13206

ccggtccgga attccccgggt cgagccacgc cttccgcgac cttaaaagg ggaatccagt 60
ggcatcaaca gagcaacaat ggcgaccaag atagtttccc tccttatgct cttgctctt 120
tctgcatgtg ttgctaacgc gacaattttc cctcaatgct cacaagctcc tatagcttcc 180
cttcttcccc cataccttcc atcaatgata gcttcagtat gtgaaaacc agctcttcag 240
ccctataggc tccaacaagc aatcgcagca agcaacatac ctttatcacc cttgttggtt 300
caacaatcgc cagccctatc tttggtgcag tcattggtac aaaccatcag ggcacagcag 360
ctgcaacaac tcgtgctacc tgtgatcaaa ccaatagctc ttgccaacct ttcttcctaa 420
ttttaacaac caccattttc ttccattcaa ccaactgtct acactg 466

<210> 13207
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-C9

<400> 13207

ggaattcccc gggggaggca cgcgtccgcc cagcgtccg cccacgcgtc cgggatgatg 60
gacgtgcagt ccgtcgcgca gcagcggcag aggatgatgc agcttgagcg tgccgctgcc 120
gccagcagca gcctgtacga gccagctctg atgcagcagc agcagcagct gttggcagct 180
caggggtctca accccatggc catgatgatg gccagaaca tgccggccat ggggtggactc 240
taccagtacc agctgcccag ctaccgcacc acctcctgtg gcgtctccgc tgccattccg 300
ccctactact gattcatgat atttgggaaa tctgctctat ccatccctct ctatctatat 360
ctgtaataat gactaagac gacacacatt atcatgtgtg gtatgaccaa taatatatgc 420
atgatcataa taaagttttg gttttaatgg 450

<210> 13208
<211> 465
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-D11

<400> 13208

ggaattcccg ggctgacgca cgcgtccggt cccgcggctt cggcttcgtc accgtctcca 60
cggaggaggc gatgcggaac gccatggagg gcatgaacgg caaggagctg gacggccgca 120
acatcacctg caacgaggcc cagtcctcgc gcggccgtgg aggcggcggc ggtgggtacg 180
gtggtggccg tggaggcggc ggctacggcg gtggcggcg cegtgatggc ggcggcggct 240
acggcgggtg cggcggctac ggtggcggcg gcggctacgg tgggtgggtg ggcggctacg 300
gcggtggcaa ccgtggcggc ggctacggca actccgacgg gaactggagg aactgagcgg 360
tggggcccg cgggccaagt taccctgttc gctgccgtga tgtttaccct agtccagagg 420
gtttatcttc gatcgtctcg tgtttgttgg tgccatctgt ggttt 465

<210> 13209
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-D12

<400> 13209

taccggtccg gaattcccg gatctgccgc gtgctggcaa aattctgcct ccctagaaca 60
accaatggca tttggtttgc tggtaaattg tctcgtggct ccgtgtgttc cctgtggctg 120
tctgtctata atttatgttc attattttgt tccggagacc gaagaatctg aggacttgta 180
tgtatctggg atcaagatgt gaatctcgca tgtaccagat gacagaactg ttaagactta 240
tatttgtctg acgttaaact gcaagacttt tatttaagct agaactttga tcaactataag 300
atatggcatg atatagcagg gctcttgaga tgcattctct tgtgcgtgct tggtaactgt 360
agtcgtgcaa ctgttgacgg cgtttgttca gaacaagtgg ttgatgaatc tgaagatggt 420
ttacggagtg ggaatgattt tgtttgtgt 449

<210> 13210
<211> 457
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-040-Q1-K1-D2

<400> 13210

cggtcctgaa ttccccgggtc ggcgcaaccc ttccggtgtc tataatccta atattcctaa 60
agtggttgag gaattgagta gcaaaggctg gaggaangaa agtgagggtg ccggagttat 120
attaattcaa ggtcatcaaa tccccttgat agtgggttaag agtgatggtg gcttcaacta 180
tgcctcgact gacttggtcgc ccctttggta tcgggtcaat gttgagcagg cagagtggat 240
catatacgtg acagatgttg gtcagcagca gcactttgac atgtttttca gtgctgcaaa 300
gatggctggt tggtgccag gtccaaacga anagaagttt ccgaanacaa gccatgttgg 360
atttggctcta gttcttggtt cagatggcaa gcggttccga acgcgcagta ctgaggttgt 420
tcgatgggta aagctacttg atgaggctaa atctcgg 457

<210> 13211
<211> 472
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-D3

<400> 13211

ccggtccgga attccccgggt cgagcgacgc gtccgcagca tagaaagcac aatagtgtac 60
catcaatggc agccaaaata ttttgcttcc gtgtctcctt ggtctttctg caagtgtgc 120
taccgcaacc attttccac aatgctcaca agctcctata gcttcctttc ttcccccata 180
cctctcacca gcggtgtctt cagtatgtga aaaccaatt cttcaaccct acaggatcca 240
acaggcaatc gcagcaggca tcttaccttt atcacccttg ttctccaac aaccgtcagc 300
cctattacag cagttacctt tgggtgattt gttggcacia aacatcaagg cacaacaact 360
acaacaactt gtgctaggaa accttgctgc ctactctcag caacagcagt ttcttccatt 420
caaccaactg gctgcattga actctgctgc ttatttgcaa caacaactac ca 472

<210> 13212

<211> 474
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-D4

<400> 13212

cccggttctg aattcccggg tcgagcgacg cgtccggagc attcagaaac acacctagcg 60
aagcgacta gcaacgacct aacaacaatg gctgccaaaga cattatccct ccttgcgctt 120
cttgcccttt ttgtgagtgc aacaaatgcg ttcattattc cacaatgctc acttgctccg 180
agtgccatta ttccacagtt cctccctcca gttacttcaa tgggcttcga acaccagct 240
gtgcaagcct ataggctaca acaagcgctt gcggcgagcg tcttagaaca accaattgcc 300
caattacaac aacaatcctt ggcacatcta accatacaaa ccatcgcaac gcagcagcaa 360
caagcactga gccacctagc cgtggtgaac cctatcgctt acttgcaaca acagctgctt 420
gcatccaacc cacttgcttt ggcaaacgta gctgcatacc aacaacaaca acag 474

<210> 13213
<211> 470
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-D9

<400> 13213

ggaattcccg ggtcgacgca cgcgtccgcc cagcgtccg ggatcaatta gtgttgga 60
tatgtgtcat atgccttgag caagaggaca atgctgtttt tgtgccgtgt ggtcacatgt 120
gttgctgtat ggcattgctt tcacatttga cgaactgccc actttgccgg agaagaattg 180
accaagctgt cagaaccttc cgccattgat ggtgatatat gatgcaaaaa actggcatgg 240
taccaccaca tgtactgctt ctgaaaccaa tttgttcttg gaacttggaa gtgctggctg 300
ctatcaacca acgacatgaa ctgcaatact gggacgaagc agcttcaatg agtttgcttt 360
ttgaacagaa cagtgagtga tgcaagttgc aagctcataa ttggcagttg agatactctc 420
actccctaga tagtgccaat ggggtgctctt gcctgtaatg tactacaact 470

<210> 13214
<211> 438
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-040-Q1-K1-E1

<400> 13214

ccggtctcgg aattcccggg tgcgagccac gcgtccgctt gctcagggca tcctccaaca 60
tgaccccttc gaggtcctgg accagagggg agtgggagag ctggtgaagt ttgctacaga 120
gaggggcccgc aaagctaggc ctaacttgaa ggtgggcatt tgtggagaac acggtggaga 180
gccttcgtct gtggccttct tcggaaggc tgggctggat tacgtttctt gctccccctt 240
cagggttccg attgctaggc tagctgcagc tcaagtgctt gtctgaggct gcctnctcgg 300
tgggcaaccg aatggcctgc tgctgggtgg atgtggtgat caacagtatt attacagagc 360
catgctatgt gaacattact agtagcaatg ctcataaaag ctacaatccc atcttccttt 420
tttttccagt catgtaaa 438

<210> 13215

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-E11

<400> 13215

ggaattcccg ggtcgacgca cgcgtccggc attttgcacg cgccaaggaa ttcaatcacc 60
tatatctgat ctactgaac gactgggatt tgaggatcgt gacccccctg tggttcctct 120
ggaatgctca ctcgaagcac catcatttga tgaggttgat gttcaagccc tagcgcatgc 180
tgttgagttg acaagacaag gtgctgtgga tagcttgaag tttgcaaaag gacatttata 240
ccaagctttt cagaacgaat tgtgccggat gaagctggac ctgacacttc tggataaact 300
tgtacatgag tattgtgtat acaggggaat agttgaaggc agttcacatg ttctttctgg 360
aactgctgac ttgaaatgta atcaaaataa tgatgttaat aatgaaacac agctttattg 420
tgaaatgacc aacaatcaga atggacattg tagcaccag 459

<210> 13216

<211> 473

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-040-Q1-K1-E2

<400> 13216

ccggtccgga attccccgggt cgacgcaccc gtccgccaaa tttgaattta gaaaatcctg 60
aggacactgt ggatgtgggc atcttggttag gagcacnaga agagagatgt gaggtgaagg 120
tggcgttatc caactcattc ggcttcgggtg ggcacaactc atcaattctc tttgccccct 180
ttaaggaact gccatcttcc tcatcgtcca aatagattca tatatctgga tctccacata 240
gaagacaagt ggactctgca acttcctcgg tgccatagat attacaggga ggtccaaact 300
gagcgtatct gagcgaacaa aacatcagcc cccctacatg tttcatctat atcacgaagt 360
tgcagatatg tggtaactat caaaaggatt taccgtacct gggccagtgt tttcgccctc 420
accatacctg cccattgtca gtactatttc ctagatttgg agtagtccccg tac 473

<210> 13217

<211> 388

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-040-Q1-K1-E3

<400> 13217

cggttcggaa ttccccgggtc gacgccacgc gtccgcagcg agggcatcca ccggcgctgg 60
gagagcggct acaggataac ttccacggca gcccacga ccaagccgct ttcattcctga 120
gcatgccgaa acggaagccg atggacgaga cacatgaaac gctgcggacc ttcgnctttc 180
cccagctcac acgtcaaaga gaaatgggcc aagaacctct acatcgcttc gatttgcttc 240
gggcggaccg tgtgctgata gcgcgcgcct gggaaatgga agtccaaacc agggccaacc 300
attccgtacc gtggccccctt ggattaagaa aatccaaaat gggccttaag tccaaaccaa 360
gtctaatagat aggatcagtg tatctctg 388

<210> 13218

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-E5

gctttgttga gtattgtatt tttggctggg agaatctccc tagaactctc ctcatgtact 180
tcacaaacgt gatgctacct ctagaggggt atttccattc ggttgcacgc aactcggact 240
tccgcaattt cacagtgaac aacgacttgc ggtatatgat ttgggacaat ccacctcaga 300
tggagcccca tttcctaaat gttacacatt atgatgagct agtaaggaat gggggtcctt 360
ttggccggaa ggttaaggag aatgaacctt gttggacaag attgatgatc aagtg 415

<210> 13221
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-F10

<400> 13221

ggaattcccg gtcgagcacg cgtccgcca cgcgtccgcg gacgcgtggg agcagtttga 60
gctattccca gcgaacccaa agtggccacc gtcagcagca tgttgtgctg tgtggaagag 120
ggcagatggt ccatgcctat gcaaatatgt taacaaggaa gtagagaagg tatggtgcat 180
ggagaagggt gtgtacgtcg ccaactatgg taaaagcccg tttcaacctg cctacaagtc 240
cggaagttat acagttcctc taagtatgaa aaaggattgg ttggaacatg tggaactctt 300
tcctaaaact ttaatttgaa atttgtacca tgtaaaagac tattgaaatt aatatgtatg 360
gagtaatatg cttccttctt tt 382

<210> 13222
<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-F11

<400> 13222

ggaattcccg ggtcgacgca cgcgtccgcg gacgcgtggg tgccgcctac ctagaacagc 60
aacaactgat ttcatttagc cctctggctg tggtaaatgc acctacatac ctgcaacaac 120
agttgctgca acagattgta ccagctctga ctcagctagc tgtggcaaac cctgctgcct 180
acttgcaaca gctgcttcca ttcaaccaac tgactgtgtc gaactctgct gcgtacctac 240
aacagcgaca acagttactt aatccactag cggtggctaa cccattgggtc gctgccttcc 300

tacagcagca acaattgctg ccatacaacc agttctcttt gatgaaccct gccttggtgt 360
 ggcagcaacc catcgttgga ggtgccatct tttagattac atatgagatg tactcgataa 420
 tgggtgccctc atagcggcat gtgtttccta gaaataatca ata 463

<210> 13223
 <211> 464
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-F12

<400> 13223

ggaattcccg ggtcgacgcc acgcgtccgg gtattacaat tgatattgcc ctgtggaagt 60
 tcgagaccac caagtactac tgcactggta ttgatgcccc gggacaccgt gacttcatca 120
 agaatatgat cactggcact tcccaagctg actgtgctgt tcttatcatt gactcaacca 180
 ctggtggttt tgaggctggg atctccaagg atggccagac ccgtgagcat gctctccttg 240
 ctttcacact tgggtgtgaag cagatgattt gctgctgcaa caagatggat gctactacac 300
 ccaagtattc aaaggcccggt tatgatgaga ttgtgaagga agtctcttcc tacctgaaga 360
 aggttggata caaccctgat aagatccact tcgttccaat ctctgggtttt gaaagtgaca 420
 acatgattga aagggtccacc aaccttgact ggtacaaggg ccca 464

<210> 13224
 <211> 466
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-F2

<400> 13224

ccggtccgga attccccggg cgagcgacgc gtccgcccac gcgtccggag accaacaagc 60
 agcatagaaa gtggaatcca gtagcaacaa tagagcaaca atggcgacca agatattttc 120
 cctccttatg ctcttgctc tttctgcatg tgttgctaac gcgacaattt tccctcaatg 180
 ctcaacaagt cctatagctt cctttcttcc cccatacctt ccatcaatga tagcttcagt 240
 atgtgaaaac ccagctcttc aaccctatag gctccaacaa gcaatcgag caagcaacat 300
 acctttatca cccttggttc aacaatcgcc agccctatct ttggtgcagt cattggtaca 360

aaccatcagg gcacagcagc tgcagcaact cgtgctacct gtgatcaacc aagtagctct 420
 ggcaaacctt tctccctact ctcagcaaca acaatttctt ccattc 466

<210> 13225
 <211> 454
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-F9

<400> 13225

ggaattcccg ggtcgacgca cgcgtccggc aaagttgatc cattgggtcaa tctcatgaaa 60
 gttgagaagg ttcttgattc tacttaggat atgattggag gtcttgagca gcaaattaaa 120
 gagatcaaag aggtcattga gcttccaatc aaacatccgg aactatttga gagccttgga 180
 attgcacaac caaaggggtg cctcctttat ggacctccag gcacaggaaa gacattgctg 240
 gcacgtgcgg ttgctcatca cactgactgc accttcatca ggggtgtctgg ttctgagttg 300
 gttcagaagt atattgggtga aggctcccg atgggtcggg aactctttgt tatggccagg 360
 gaacatgcac catccattat atttatggat gaaattgact ctatcggatc tgctagaatg 420
 gagtctggaa ctggcaacgg tgatagtga gtcg 454

<210> 13226
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-G10

<400> 13226

ggattcccg gtcgagccac gcgtccgtgt gaagttgaca atgaaaagat ggaactcctg 60
 ctgtcccaac tgagcggtaa ggacgtcacc gagctcattg ccgcgggcag ggagaagttt 120
 gcttcagtcc catgtggtgg cggcgggtgc gctgttgagg cagctgcacc tgctgctggc 180
 ggagctgctc ctgcagctga ggcaaagaaa gaagagaagg tggaagagaa ggaagaaagc 240
 gatgatgata tgggcttcag cctcttcgac taggctgcac agtcatcaca gtattgtttt 300
 gggcagtga accagaggaa aaccagagtc atgttttagat tttaagcttg ttttatgttg 360
 gaaagtactg gaaagactgc tacttgtctt tatatttggg aattcagccg tagattgcta 420

tgctggttgg gattt

435

<210> 13227

<211> 448

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-040-Q1-K1-G11

<400> 13227

ggaattcccg ggtcgacgca cgcgtccgcg gacgcgtggg caagcgcacc ggcgcgatgc 60

tgcggttgc cgtgatggag tcggtgctgc agcagccctt cttcaagacg gagacggtgt 120

cgcattctgt gcgggagtgc gagtccttga tggaggccgt gttcccgag gcgcgcgatc 180

ggggccaggc cgccgccgcg gcgctcgccg tcgcgagggc ggagcagggc atcttccgca 240

acaccgtggc cgcgtcctc accatgcagg acgtccgcgc ggggagctcc accagaggaa 300

gccactcgct gccgccgctc aacctgccgg actccgactg gctacggtcc ttcgaccgc 360

cgtttccgat cccgaccga tgacacttgt tgctcgccgc tcctagtagg cttgcgccag 420

cctnctcgat ctcccttctt tttcggt 448

<210> 13228

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-G12

<400> 13228

ggattcccg tcgacgcacg cgtccgcgga cgcgtgggtg acgcgggact tgcttggcgt 60

cggcggagga ggcattcgtgc gctggatatc gacacctaga ggagaccacc aaagcagcag 120

cgatatgagc tccctggagg ccgagatgaa gtcggcctcg tccttcaacg gaggcaggat 180

gccatgaccg acccatcggc cgagcttata aacaagacat aagctcgcgc acagtaagca 240

agagacttga tcaagcagat gcagtgagaa gagtaaggct atcgttatat agcgtagtag 300

caatcaatgc aagttatcaa ctgagtcgca tgagtgagtt catgcatgga taaagctggc 360

tagcttagct agctttcatc atccgaaagg accctgggtg agagatcgag aggcgtcttt 420

ctctgactaa aggagtaagc t

441

<210> 13229

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-G2

<400> 13229

tgaaaatgct acagttcgag ctagtgcagt cagcacattg gcaaaatttg gtgcctgggg 60

tgactcactc aagcctcgca tatttgtgct cctgagacgc tgccctgtttg atggagatga 120

cgaggtgcgc gatagagcga ccctttacct caaattgtta ggtggggaag ctacagtggg 180

tgagacagag aaggatgtga atgaatttct cttcggctca cttgatgttc cattagtaaa 240

cttggagacg agtctgcgga attatgaacc ttcggatgta ccttttgata tttcatctgt 300

ttcgaaggaa acaaaatccc aacccttgc ggagaaaaag tctacaggca agaaatcagc 360

aggtccagca tctgctgtca gtggctctgt ttctacagtt gatgcttcgt atgagaagct 420

tctttcgt 428

<210> 13230

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-G9

<400> 13230

ggaattcccc gtgcgcacg cgtccgagca ccccgactct gggccagtgc gtctagttec 60

tgaggcatca gtgcagcccc acggcgacgc cctactgctc gcctgagtgc cagtcgttgc 120

ggcagcagtg ttgccagcag ctcaggcagg tggagccgca gcaccgtac caggcgatct 180

tccgcttggg cctccagtcc atcctgcagc agcagccgca aagcggccag gtcgcggggc 240

tgttggcggc gcagatagcg cagcaactga cggcgatgtg cggcctgcag cagccgactc 300

catgccccta cgctgctgcc ggcggtgtcc cccactgaag aaactatgtg ctgtagtata 360

gccgctggct agctagctag ttgagtcatt tagcggcgat gattgagtaa taatgtgtca 420

cgcacacca tgggtggcaa tgtcagtgtg agcaatga 458

<210> 13231
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-H11

<400> 13231

aattccccggg tcgacgcacg cgtccgcgga cgcgtggggt tgcctgatgc tgctgggact 60
 acgtgcggtc agcgggctgga gaaggctcatt ggtactgagc acacagacat cattcgcggt 120
 cccttcagaa atgagaatgg catcctccgc aagtggatct ctcgttttga tgtctggcca 180
 tacctggaga catacactga ggatgtttcc agtgaaataa tgaaagaaat gcacgccaaag 240
 cctgacctta tcattggcaa ctacagcgat ggcaacctag tcgccactct gctcgcgcac 300
 aagttgggag tcaactcagtg taccatcgct catgccttgg agaaaaccaa ataccccaac 360
 tcggacatat acttggacaa attcgacagc cagtaccact tctcttgcca gttcacagct 420
 gaccttattg ccatgaacca ca 442

<210> 13232
 <211> 455
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-H12

<400> 13232

tcggaattcc cgggtcgacg ccacgcgtcc gccacgcgt ccgggtgggt tccgcagcag 60
 cgggtggttat ggtggtggcg gctatggggg tgggtggtgt ggctatggtg gcggtggcta 120
 tgggtggcggc tatggtggtg gtagcgggtg ctatggcggc ggccggcagt gtagctatgg 180
 tggcggcagc ggtggatatg gtggcaacta cggcgacagg gctggtggtg gctatggtgg 240
 tgggtggtgat tatggagttg cagggtggggc tgaaggcagt tttgctgctg gaggtagcga 300
 cagctttggc agcagtaact ttgctgacag tggttttggt gaaaaccctg ctggtagctt 360
 tggcgcaatg ggtggttcca gtggcgctga tgggttctct gccggcacac ctggtgacgg 420
 ttacaagaat gatgaaatca tggatgatct cttta 455

<210> 13233

<211> 339
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-040-Q1-K1-H3

 <400> 13233

 ggaattcccg gctcgagcca cgcgtccgac tggaaccccg ctgcttattt gcagcttcaa 60
 atactactac catttagcca gctagctgca gcaaaccgtg cttgcgggtt gacacagcaa 120
 cagttgctgc ctttctacca gcagtttgcg gctaaccccg caaccctctt acaactacaa 180
 caattgttgc cctttgtcca acttgctttg acagaccag cggccttcta ccaacaacac 240
 atcattggtg gtgccctctt ttagattgct tattagttgt aattcaataa taaagttttt 300
 tggatgatgt atgtggccaa ccagaaataa gaagttaca 339

<210> 13234
 <211> 183
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-040-Q1-K1-H8

 <400> 13234

 ggaattcccg ggtcgagcca cgcgtccgcg ccctactact gattcatgat atttgggaaa 60
 tctcctctat ccatctctct ctgtgtatat atgtaataat gcagtaagac gacacacatt 120
 atcatgtgtg gtatgaccaa taatatatgc atggtcataa taaagttttg gttttaatga 180
 atc 183

<210> 13235
 <211> 209
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-041-Q1-K1-A1

 <400> 13235

 tagcgacttt attacatcct tgtgcctatg tctttcggca attatgttaa aacctttgtc 60
 aaattaatga aattaaacag attgactctc tcgttaattc accccacata cccacaaaaa 120
 tctgaactat taaccatcaa tggatgatctt accattcttt ttttaagaaa cctcataaat 180

ctcttttata acccatatac acttaatta

209

<210> 13236
<211> 389
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-041-Q1-K1-A11

<400> 13236

gcaaaatccc caaatccgcg gcgagagagg gagagccgga gacaggggcg cggccagaga 60
gatcgagaaa ggggaagaag atggtgcggg tggcgacctt cttcgcgatg accttcgggg 120
cgttcctctt ctggcagtcg atggacaggg tccacgtctg gatcgccctt caccaggacg 180
agaagaaaaga aaggatggaa agggagctgg agataaagag aatgcaggca gagttactgg 240
cccaagctaa agagaacgaa tcatgattgt catttgtcca atggtttcag gcagttcctt 300
tategtattt cctctgctgt attttccatg caatatcttg actgatgtat gctcatgctc 360
aacacctnca ataaagcgag acatgctat 389

<210> 13237
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-C3

<400> 13237

tgcttccttc aagctactct aatgtccttt ctattcaagt ctagcaatgg cggcaccagt 60
gagaaaaatc ccatccccag aaaacagcga gaaaaaataa atgaattacg caaggagctt 120
ggtgaacact catcagaagc cattaaagac ttcctttcag atgcctcggt agtgcgattt 180
cttcgagcaa ggaactggaa tgtgcagaaa gctagtataa tgatgaaagc agctgtgaag 240
tggcggtctg cattcaaacc tgaaaacatc tggtgggatg atattgcaga ggaagcagag 300
actggaaaaga tatatagggc ggattataag gacaaacatg gcagaactgt tcttgtattg 360
aggcctggct tagagaacac tacctcagca ataggacaaa tcaaatatct agtctactct 420
ctggagaaag c 431

<210> 13238
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-C7

<400> 13238

tcctcgctccc cgcccgacac caccggtac gacgagctcc gcctccgggg cttcccgcgc 60
ggcctgctcc cggccaaagt gggggcctac acgctcgact ccggctccgg ggacttcgcc 120
gtcgacctcc gtcacagctg ccggatcgtg ctgcccgcgg ggagctacct cgccgccttc 180
agcgaccgcc tcacggggccg cctcgacgac cgccgcatct cgggcctcga cggcatccgc 240
gtcagggcct tcttccgctg gtgggtccatc acgggggatcc gcgccgatgg ggaccagctc 300
gtcttcgagg tcgggtccgt ctccgccaaag ttccccgcgc gggacttcaa cgccagcctc 360
gactgccccg cccaggcggc gtcctaagtc aaggaggtat cctgtcgcac 410

<210> 13239
<211> 128
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-041-Q1-K1-D1

<400> 13239

nnnnnnnnnn nnnnnntnt tgggttggtt tttttttta gaatctggaa atgtaacttc 60
ttatttttgg atgatgtatg tggccaacca gaaataagaa gttacatttc caaaaaactt 120
tttttatt 128

<210> 13240
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-D10

<400> 13240

taagaccaac tagcaacata gaaagcacia tagtgtacca acaatggcag ccgaaagggt 60
ttgcttcctt atgtctcttg gtctttctgc aagtgtctgt accgcgacca ttttcccgca 120

atgctcacaa gctcctatag cttcccttct tccccatac ctctcatcag cggtgtcttc 180
 agtatgtgaa aacccaattc ttcaacccta caggatccaa caggcaatcg cagcaggcat 240
 cttaccttta tcacccttgt tctgcaaca accgtcatcc ctattacagc aattaccttt 300
 ggtgcatatg ctggcacaaa acaataaggc acaacaacta caacaacttg tgctagcaaa 360
 ccttgctgcc tactctcagc atcagcaagt ttcttcattc aaccaactgg ctgcattgaa 420
 ctctgctgct tatttgcaac aacaac 446

<210> 13241
 <211> 386
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-D7

<400> 13241

accacgcgt acgcagccat ataaagcaca aaactatacc ttcactacca tccaaaacat 60
 catactggct ggtcctactt gcactttctt caatacctgc tacccaaacc cttttaccac 120
 aatactcaca ttattctata gtatacctac tacaccata cctctcatca cacatacctt 180
 aactatctta aaacaccaat ctaaatacct acacaatcca ccactatctc tatacatgaa 240
 tcttaccata atcacacatt ttccactaca acccacatac atataacatc aaacatatct 300
 accacattta ctcaaacaca acatcaggcc acaccaaaa ctacacctct aactatcaaa 360
 cacaattacc tacacttaaa accacc 386

<210> 13242
 <211> 385
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-E10

<400> 13242

ggaagtgata acttcttatt tctaggaggc cacatacatc agccaaaaaa cttcattatt 60
 gaatgacaac taataagcaa tctaaaagag ggcaccgcca atgatgtgtt gttggtagaa 120
 ggctgctggg tttgtcaaag caagttggac aaagggcagc aactgttgca gttgtaaaag 180
 ggttgcggcg ttagccacaa actgctggtg gaacggaagc aattgttggt gtgtcaagaa 240

agaagcgggg cttgtttag ctagctggcc aaatggtagt agtatttgct gctggaaata 300
 agcagagggg ttcagtgcgg cgaattggtt aaatggaaga aattgttgct gctgagagta 360
 ggcatagct agctggctga atggt 385

<210> 13243
 <211> 354
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-E2

<400> 13243

cggacgcgtg ggcggacgcg tggcgggacg cgtgggggcg tgtggaagta ctgaaaaggt 60
 ggaggggtgga gggcaaagac atgaattcgc ataaattaaa tatgcatgta atatctatat 120
 ctgcattgca ttttgtgaaa tatgatgcat gcatggtttg tatattccgt aataaccagt 180
 agttggtaag ctatgtgtgt gtatggatgt actagctagt acatgcaccg tatcattgca 240
 tgtgtggtat atgtctcggt tgggtgtagt aatctgcttg gttgtgctga tgactgatgg 300
 ttgtaagaag caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaac caaa 354

<210> 13244
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-E3

<400> 13244

tgaaccgaaa gttcgagggtg tatgagaagc agatgaaagc ggccaggaag tctgggagca 60
 aggccgcaca ggataagggtt aagggccagg cgctatcaaa ggctgctaaa gaggccgcca 120
 agaacaaggg gaaaggggaag agtgctgcag atgacgatga tgaccagaaa caggtagctg 180
 tgccgcggaa gtggcgtgac tacagtgttg agttccattt cccagagcct acagagctca 240
 caccacctct ccttcagctc attgaggtag ggtttagcta ccctggtagg ccagacttca 300
 aactctcagg tgttgatgtt ggcattgata tgggaacacg tgtagctatt gttgggcccc 360
 atggagctgg gaagtctacg ctgcttaatt tacttgcggtg tgatcttatc ccaa 414

<210> 13245

<211> 310
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-041-Q1-K1-E7

 <400> 13245

 tgacgatcgg actggtggcg ctgcttgccg ctctgggcct cttctgcac ttccaatcgg 60
 tctacttcag gtgtcagatc cggagaggac cctccttct cccgctcggc tactttaacg 120
 gcccatgggt gacccgcgtc gctctgggtc tgatcaccat ctgggtgggga gtaggcgagg 180
 tagcgagact gagcttcttg aagcaaaagc tgttctccag cttgacatgg cagaggaaca 240
 tatgcatgac gtacatactt tccaacctag ggttcgcgga gccggggatc ttcttcgcat 300
 tcgctttcct 310

<210> 13246
 <211> 468
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-041-Q1-K1-G10

 <400> 13246

 accggtccgg aattcccggg ctcaactgtg aggagcgaaa cctcttgtct gttgcataca 60
 agaacgtcat tggagcccg cgcgcctgat ggggcatcat ctctccatc gagcagaacg 120
 aggagggccg aggcaatgag gaccgagtaa cactcatcaa ggattatcct ggcaagattg 180
 agactgagct gaccaagatc tgtgatggca tcctcaagct gcttgagacc catcttgtgc 240
 cgtcttccac tgcccccgag tccaaagtct tctatctcaa gatgaaagg gattactaca 300
 gataccttgc tgaattcaag actggagctg agagaaaaga acgccgctga gaacacgatg 360
 gtggcataca aagctgcccc ggaccatgct ctggctgagc ttgctccaac tcaccctatt 420
 aggcttggac tggcacttaa cttctcagtg ttctactatg agaatctg 468

<210> 13247
 <211> 374
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-042-Q1-K1-A11

<400> 13247

accggtccgg attccccggt cgacccttgc gaccacctt acaagggtgga atccagtatc 60
atccatagag caacaatggc taccaaaata ttgtccctcc ttatgtcctt tgctctctct 120
gcatgtgctg ctaacgcgac aattttccct caatgctcac aagctcctat aactatcctt 180
cttaccat accttacatc aacgatagct tcagtatgtg aaaaccatc tcttcaaccc 240
tataggctac aacaagcaat cgcagcaagc aacatacctt gatcaccctt gtttcaacaa 300
tcgccagccc tatctttggc gcaatcattg gtacacacca tcaagggtca gcatctgcaa 360
caacttgtgc tacc 374

<210> 13248

<211> 181

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-A4

<400> 13248

gaattccccg gtcgacccaa gccttccgaa aaaaaaaaag cacaataaaa aaactttcat 60
aaacaaacaa aataaaaaaa aaaagggggg cggtttata agtcccaaac ttccgatccc 120
gtgaatacaa cgccataatt cttataaacg gcaccaaact tcaatcaact gccgcctat 180
a 181

<210> 13249

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-A6

<400> 13249

tttgtttttt ttttgacgct caaaaaagat gttttggatt agattacatc caccatctgt 60
ttaataacag tgcaccttc atctcatgat taaaatatag agagatgcaa aggagggtca 120
ggaacaaaaa aacaacttgc taaataaaac actgctatct actaacaac atctaacagg 180
ttctaccag tactaaaaca caagtaaaaa ccgttcagat gttctaactct ctctctctct 240
ctctctctct ctctctctct cttttcactg agagggttagc ttcgggtcaa tccgtcagca 300

agccaaacac actgaacgcc gccaatcgga tgcccagcca tgacggccaa aacacct 357

<210> 13250

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-A7

<400> 13250

ggtcgaccca cgcggggcggg gccacgtgaa ctctcgcttt attgcgagcg acgtgcttct 60

ggcgatccgt gacgaggttg agcttggaaa gctgttggac agcgtgacca ttgcttaccg 120

tggagtgtcg gccaatatca accgtgttct gctgcccattg atgacggcgg agaaggcgctc 180

cagtggcggg agcaaggagg caaagtcgtc catgaaggcc gccctgttct ctactaacgc 240

atagactgac tgttcggagt gatctgatgt ttagcagtag cttgttacca gaatgctgag 300

atgcgtatgc tgcagatggg acgaatgtgc ttgtatgtgt atgtaggctg ctgtaagttg 360

aactttgcta tttaaatgg aagaagaaat 390

<210> 13251

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-B11

<400> 13251

tccggattcc cgggtcgacc cagcgttcg tccaatgcaa cggccagtgg tgaccggttt 60

tcccttgggg gacaaccggc cggcctggcg gccttctgga cccccagct ggcagatctg 120

tctaactctgt acaatgacct gctgatggtg tttcggtttc gagaagagaa aacggtccca 180

caactcgtaa attcaaagca acccatccgt tgtggtgaac aggggaaaac ttctgatttg 240

ggtgatgcat cggagtcgga ttcggatggg gattgtcaat ctggcaaaga acttgcacca 300

ccagttcaga agcatacaag agccaaccgg aagcatatag atagcattac tttagttgat 360

atagctcagt atttccatct tccaatccga gatgcatcaa agacactcaa gattggggctc 420

agcatattga agaggaaatg ccgacagt 448

<210> 13252

<211> 301
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-042-Q1-K1-B12

 <400> 13252

 ggaattcccg ggtcgacca cgcgttcgcc cagcgtacg cccacgcgtc caggttcgt 60
 gggtagctg atcgagatcg gccgcgtggg atgttgagta ccgctgcttc gtcagctgcc 120
 tcgcctgtgc cagggacgac cactccctcc acaacgcctt cagcacctac agcgaggtcc 180
 tctagtccaa gatcatcctc gatcgggata cgcagaggtc ccgcagattc gggttcgtca 240
 ccttgtccac ggaggacgcg atgctgaacg ccatcgatgg catgaacgag ctggaactgg 300
 a 301

<210> 13253
 <211> 466
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-042-Q1-K1-C10

 <400> 13253

 ctctcccgtc cggattcccg ggtcgaccac gcgtccgcag cacaacagtt acctttggtg 60
 catttggttg cacanaacat cagggcacaa cagcgacaac aactcgtgct agcaaaccctt 120
 gctgcctact ctcagcaaca acagtttctg ccattcaacc aactagctgc attgaactct 180
 gctgcttatt tgcaacaaca actagtacta ccattcagcc agccagctgc tgctacccc 240
 cagcaatttc ttccattcaa ccaactagca gcattgaact ctctgccta tgtacagcag 300
 caacaactac taccattcag ccagctagct gctgtgagcc ctgctgcctt cttgacacag 360
 caacaattgt tgtcgttcta cctgcacgct gcgcctaacg ttggcaccct cttacaactg 420
 caacaattgc tgccattcaa ccaacttgct ttgacatacc cagcag 466

<210> 13254
 <211> 208
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-042-Q1-K1-C4

<400> 13254

tcccggctcg acccacgcgt tccgagaaaa taagagaaga taagacgaaa gcacttcttg 60

cgttgaaagc tgatgacagg ggaggggaag ttcacaaaga tcctcgttct atgcagccac 120

tttcaaacca gaaaggaaat tcttaaattc tcattaagct tggttcttac caggattaca 180

agaatggaaa ttcttaacct tattaacc 208

<210> 13255

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-C5

<400> 13255

tcggttcgga attccccgggt ctactccact cgtcctccca ctcgctctcc cacgcgtccg 60

cctactcgtc cgcccacgcg tcctaaaaag aaagaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaata ataaaaataa tataaaaatt attaacttct taaacttatt catacaactt 180

tataattatt atattatatt atctaatttc attaacttaa tctacttact cacatctttt 240

ttaaactgct taatacctta tggtatcaat ttgatatta tatttgtaca tcataattt 299

<210> 13256

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-042-Q1-K1-D2

<400> 13256

tccggattcc cggtcgacna cgcgtncgaa aaccctagcc ggccttcata cgccgtcacc 60

gggccgcttc ctccctcgcc atggggctcg ttgctgccgc acgccgtgcc gcgtcctcct 120

ccgtgcccgt cctcctccgt gctcgcgct cctcggggtc ccaccgcagc gccgtcctgc 180

tccggccccct cgtgcccgc gtggcgccgt cgaagccccg cgcgatgccg atctcctcgg 240

cgcccgcgac gagaccagc ttcgacgcc agctactcag cgtcatcgac tccgagatca 300

agtacgccga ggactgcgat gaccacgaca gggttgcgga gattccagaa aatgtccctt 360

tcaaaatcag cgacgagaag gggacgaatg cagctaccct taaaagaaca tatcaaggtg 420
agcagattga 430

<210> 13257
<211> 239
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-D6

<400> 13257

cccacgcgtc cggaattatt agctgggtag ctaattacca tgatcggttt atttagttgt 60
ctgtttgaga attctttggc cagaacgaag aagaattctt tttttcttcc ttgctgggtat 120
tcatcatatc tgcgaggata cgaactgatt aattagacct agtcgaactc atatatatac 180
atagtgtgta aattcaaata agatgatgga acagggtata tgcaattctt tcgcttcaa 239

<210> 13258
<211> 467
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-E3

<400> 13258

accggtccgg aattcccgcc tcgacccacg cgtgcaccga cacttccgcc cacactttct 60
catgtcgcac tagaacaac aataacaacc aggatgtttt cctccttat gtccttgcct 120
ctatctgcaa tgtgttgcta acgcgacaat atttccctca atgctcacia gtccttatag 180
cttcccttct tccccatac cttccatcaa tgatagcttc agtatgtgaa aaccatcttc 240
ttcaacccta taggcttcaa caagcaatcg caacaagcaa cataccttta tcacccttgc 300
ttcaacaatc accagcccta tctttggtgc agtcattggt acaaaccatc agggcacagc 360
agctgcacca actcgtgcta cctgttatca accaagtatc tctggcaaac ctttctacct 420
actttcagca acaacaattt cttccattca accaactgtc tacattg 467

<210> 13259
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-F10

<400> 13259

tcccgggttcg accaagcctt ccgttgccctg aaggctcctgt tccccgggta agggattatt 60
tctgccggct cttagtccgg ggggattgac ggttcggggg gacttgacgc ctgcgaatct 120
gtcagatcaa aagatgagaa tttgaagcgt aatgtaacgc tntagaccaa tgctggctct 180
gaacatacat atgatcagag tgatgagggt gagctctgtg agcttcagac tacggaatac 240
agataatfff ggaccaagtg cttggagttc acttggaattg gattctgctg aatfffctgg 300
tagggcggcc gctatagatg tatcaaactt acatacccggt gcatgctact gcttacctgt 360
ctgatagtgt 370

<210> 13260

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-F11

<400> 13260

tccggaattc ccgggtcgac ccacgcgttc gctggaactc aaaattatff caccggaggg 60
ggaaaaatta aaggagttcc cttgatgggt gtgacattat tgaagggtggc attggtagtg 120
atagtgttgt gaggtatgct gaagagcagt tgatgatgag aatcagcat cgcacatcc 180
actggcaagc aaggctctgc aagttgaatg acatagttaa aaggggcaac aagtgtgata 240
tcaccccaa ctatcacaat ttgttggtcc aaaggatcat cttaaacatc agtgatacat 300
ctagcatatt tgtgaacaat tcaactgaatg gaaaccaaatt tggaagaca tttccaaatt 360
tggaatgcac tttggcattc aatfffgttt tcgaagccga ggagaaccaa agagtttagtg 420
atttacagtc cttgcagaag aagacaatgg aaa 453

<210> 13261

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-F12

<400> 13261

tccccgggtcg acccacgcgt tcggtggacc tctgatgtga ctgcgccgtc tgttgctcct 60
 actggtgctg attgaagggc gtggccagct ccggttccta ccggtgatgg ctgggatcaa 120
 gctgggtccc ctgcacctgt ggtggacggc actgtacctt ctctggttgc tcctactggc 180
 tgggaccaag cagccccgcc accgactgcc caaggctggg agtaggcgtt gtccactctg 240
 agacctgtct tctgcggctg aagttcagta tttttctgtg gtctgaatgt ccaaattccg 300
 gtggcatctt ctatagctat gctctgcttt gctttgaaca cttgagtttt agggtatct 360
 agctgaaccc gttgtgcaat attgctgacg ttgaaatitt tggttaatct tataactgga 420
 aatgatgc 428

<210> 13262
 <211> 384
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-042-Q1-K1-G12
 <400> 13262

ttccccggttc gacccacgcg ttcgcggacg cgtgggcgga cgcgtggggc atctttgatg 60
 ctaaggctgg cattgccttg agcggcaact tcgtgaagct cgtgtcctgg tacgacaact 120
 agtggggata cagcaccgcg gtggtcgacc tgatccgtca catgaacagc accaactaag 180
 atgaagaact caagtcaagg tctggtgata cgagcgagtt gtcttcttcc cccccgggag 240
 aaaagtgctt acgagaataa attttttcca tcggaatgtc tgaaactatg ttgggtgtat 300
 cctagtgggtt ggttgagcat taatggctca tattttgtca ggtctatgtg tcgccgtgaa 360
 acttttaatc aaatcagttc actc 384

<210> 13263
 <211> 179
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-042-Q1-K1-G2
 <400> 13263

aagaacacat aaagcaaatt atgctagctc taataagaaa gaaaaaagaa aaaaaacgag 60
 aaaagagatc taataaaaaa actaagggcc ggcccttcta acgaatccaa ccttacttcc 120

cagtgtttac gacgtcaaag ttcttctaga gctcacctaa attcacttcc ctacccctt 179

<210> 13264

<211> 468

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-G8

<400> 13264

ggaattccca gctggaccca cgcgtgcaa cacacctagc gaagcgact agcaacgacc 60

taacaacaat ggctaccaag aggttgctcc tctttgctt tattgccctt tttgtgagcg 120

caacaaatgc gttcattatt ccacaatgct cacttgctcc tagtgccatt attccacagt 180

tcctccctcc agttacttca atgggctttg aacaccagc tgtgcaagcc tacaggctac 240

aacaagcgct tgcggcgagc gtcttacaac aaccaattgc ccaattacaa caacaatcct 300

tggcacatct aaccatacaa accatcgcaa cgcaacagca acaacaattt ctaccaacac 360

tgagccaact agctgaggtg aaccctgtcg actacttga acagcaattg cttgcatcca 420

accacttgc tctggcaaac atagttgcat accaacaaca acaacaat 468

<210> 13265

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-H10

<400> 13265

gtaccggtcc ggaatgtctc ggaccacgc gttcgagcgg atccatgtcc gcgaggagca 60

tgtgcagccc tcccgttgca cggaggagtt gggctggaag aaagccaaga atgaccagct 120

caaggcggat gccaaaggccc gaggtgaggt gatcagcacc aagaggcagt ctgtgggacc 180

caaacctggc ttcattggtg aaggtgctac actcgagaca gtcactccta ttccttatga 240

tgtggtcaac gatctcaagg gcggttacta gagagaattt ttgtacctta agcagttcaa 300

acgagctggc aaacttatat gaatcttttt gataattggc tagttcttct gttctggtgt 360

tatgaactca tgtggctatt gctgttggcg tcaaaagatt tttattattg ccatggttga 420

ttgcaacctg gtatcttacc ttc 443

<210> 13266
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-H12

<400> 13266

taccggtccg gacttctcga cccacgcgtt cgcccacgcg ttcggaccaa cactggcatc 60
attgtccttg ctgagggctg tctgatgagc ctgggggtgtg ctactggcca tcctagcttt 120
gtcatgtcct gctcattcac taaccaggtc attgcccac ttgaactgtg gaaggagaag 180
agctctggca agtatgagaa gaagggtgat gtgctcccca agcaccttga tgagaagggt 240
gctgctctcc acttgggcaa gcttgggtgcc aagctgacca agctcaccaa gtctcaggcc 300
gactacatca gcgtgccgat cgatgggtccc tacaagcctg cccactaccg gtactaggca 360
gccagcacac ggcttgcagc tcaactcgggc cgttgtgtgc tatgaagttc gctacactgg 420
cct 423

<210> 13267
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-H3

<400> 13267

cggaattccc gggtcgaccc acgcgttcgg ccaaaccctc caattgcctg tggggggccgt 60
ctcttcccgt tcggaacgcc aagcccgggt ggggcgaaat ggcccccaag cgaggtggca 120
gggcgccggt gccggccaag aagaagacgg ataaagtac gaaccctcta ttcgagaaga 180
ggccgaagca gttcggcatc ggcggggcgt tgccgcccac gaaggacctg caccggttcg 240
tcaagtggcc caaggtcgtg cgtatccagc gacagcgccg catcctcaag cagcgcctca 300
aggtaccacc ggcgtcaac cagttcacc gcaccctcga caagaacctc gctacgaacc 360
tgtttaagat gcttctcaag taccggcctg aagacaaggc tgccaagaag gagaggcttc 420
tgaagagggc ccaagctgag aatgaaagaa aa 452

<210> 13268

<211> 307
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-043-Q1-K1-A1

 <400> 13268

 tccacgcgtt cggcagcccg ttggactgat ggtcctgaac aagaacgtcg acaacttggt 60
 tgcagagaat gaacagattg ctttctgccc agcgattatt gttcctggaa ttcactattc 120
 tgatgataag ctgctccaga cgagaatctt ctcctatgct gataccaga ggcaccgtct 180
 tgggtccaaac tatctgatgc ttcctgtgaa tgcacaaaaa tgtgcccacc acaataacca 240
 ccatgatggg ttcatgaact tcatgcacag ggacgaagaa gtgaactact ttccttcgag 300
 gtttgat 307

<210> 13269
 <211> 347
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-043-Q1-K1-A11

 <400> 13269

 gacggtagaa gaaaacacga gcaccactga gagagcggtc caggatcggc agtatcaggt 60
 tgacgcggac atagttcgaa taatgaatac tcggaatgtc ctcaaccaca cccttctaata 120
 aactgagctt taccagcaga tcaagttcca tggcaagcca gctgatata caaaaaagaat 180
 agacagcttg atcgaccggg agtacatgta gcgcgacagg agtaacaccc agatctacaa 240
 ctatctggct tgacaacggt ctggtggatc gttcgcactt cattactatg agacataggc 300
 actgtcaatc aattttattct ccggattatc agcatttcat gctatta 347

<210> 13270
 <211> 296
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-043-Q1-K1-A3

 <400> 13270

 ggtccggact tcttcgaccc accctttcgt ccacgcgtcc gccaaacctt ccgaatgccc 60

cttccgaagg ccgccttcaa aaaccggtag aaccatactt tatcttccac cccctactac 120
cacctgaaga agacgtccgc ttgctacctc tgcactgtca ctgtccccgt ctacagcacg 180
ctgtacctga ccaacctgaa cgtcgccttc tgcaacgacc tgccgatctc cttcgccgcg 240
ccgtctggcc agaccgtctg gagctactac aaagttatga tcccccttgg caagat 296

<210> 13271
<211> 256
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-B1

<400> 13271

aattccccggg tcgaccacg cgttcgcggt cgctaggggc tggccagaca gactactggc 60
ccagtataat gccgattaac caagacggct actagtacaa tacaccgaac tacagattcg 120
tgctcgcgat ttaccagaca cgacatcaca acccatagca tatctgctag gatagcacgt 180
gacatggctc ttgctatctg ccactcgcgt gagatgacac gaaactgtct caaagttcct 240
ctgaccaact attcag 256

<210> 13272
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-B10

<400> 13272

gacacagcac aaacaaatga aaggcgcaga cagatcgaac aggggcatgg cccgatgctg 60
tactgcacac tcggaccaca cagcacaaca catcacaaca cagtctgact gctagatgag 120
ccccaggaag gacatgacag gacaggacac gacacgacac ggcgccaaca tctcgggtaca 180
attattcggt ccccatcag taccaccact agagcaaggc gatggagcag atagagcgag 240
gcatgctatg ccatggccca tggcacgcgg ctgactgtct aactgactcg aacaaaacac 300
agcaaacgac actgctagaa tattatatac tagctagagc ttattaatta gctagagaga 360
taaagagtcc ttc 373

<210> 13273

<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-043-Q1-K1-B8

<400> 13273

cgtaccgtcc ggattccccg gtcgactacg cgtccgctcg ggcgttgctg ctctgcgaca 60
cgtagctccg aaggccgcag catcaggcgc gggggccctc gcgtgtgacc gagatggcgc 120
tgccgaatca ggggaccggt gattacccca gcttcaagct cgtcatcgtc ggcgatggtg 180
gaactggtaa aactacattt gtgaagaggc atctcactgg agagtgtgag aagaaatatg 240
aaccaaccat tgggtgtggaa gttcatccgt tggatttcac cactaactgt ggtaagatca 300
ggttctactg ctgggatacc gcanggcaag agaagtttgg tggcctcagg gatggatact 360
atatccatgg ccagtgtgcg atcatcatgt ttgatgtaac ttcaaggctt acttacaaga 420
atggtcctac gtggc 435

<210> 13274
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-C10

<400> 13274

aagcagacca caacaagaag aagcgtagtc gtcgccggaa ggaaaggcgc ggagcaagat 60
gtcgtggcag gcgtacgtcg acgagcacct gatgtgagc atcgaaggac agcatctcag 120
cgccgccgcc atcgtcggtc acgacggcag cgtttgggag cagtccgaga gcttccccga 180
gttaaagcct gaggagggtt ctggtatcat aaaggacttt gatgaacctg gtactcttgc 240
accaactggt cttttcgttg gaggtacaaa gtacatggtg atccaagggtg aacctggagt 300
tgtcatccga ggaaagaagg gcactggggg cattactatc aagaaaaccg gcatgtcctt 360
gattattggt gtctacgacg agccaatgac tccagggcaa tgcacatggg tgggtggagag 420
gctcggc 427

<210> 13275
<211> 407

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-043-Q1-K1-C3

 <400> 13275

 tgaaaattga ctgacaagcc tacagtttgg gaaggtagac tcaactgctt tgacaccagt 60
 ggagaagttt gaaacttgga aggagattaa aattatgagt atggtatttc ttatattatc 120
 tacgctatgc atgacttgct ggggtctattc attgtctaata tataaatatg catttctaac 180
 aatgttattg ttcttgtggc ttttctctga tttcttacgt ttcagaaaaa tagtttctgc 240
 aatgtgggca atgacattgc ttagcttgta tgtagagtt catgtcacca tattaggtac 300
 ccatctctac taggattttg cccagtgtac aaatgggtgca cagttacaag tacatctatg 360
 ctccagcctn ctcatcttat gctcaagcat tatcgtatga atggctt 407

 <210> 13276
 <211> 415
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-043-Q1-K1-C9

 <400> 13276

 tttactttta cagaagtaaa tgcaaaacgt gtactttcaa aggcaaaggt catttgtgtt 60
 tcttcctaga tctgattgta ccatataaat ctgtcacaaag tcttgccctc ctcacctgat 120
 cttatttgta gtctgcatgc tccatgtccc ttggccttgg ggagagcacc ataagcgctt 180
 catcgggtgct tgccatgcct atggtctcgt caagaacaac cggcttcaga ggaatcgaaa 240
 atgaccgttc aaagtatgtc cctttaagaa ccaactgattg gagtaaccta tagctgatgg 300
 taatatatag gtacacagga aaggtctttg tttttttatg ttgcctagcg gatggcagtg 360
 aagttttttg ttgcttccag aggcgcaact gtttggtgtg atcgtagcta gctat 415

 <210> 13277
 <211> 403
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-043-Q1-K1-D3

<400> 13277

tgacgatagc gctggacccg tctctgtacc cagagaatcc actcatcatc tgggagaatg 60

cacgggcagc tgcccagcag gaaggggttg aggtaaagag gaaaggggat aaggagtttg 120

ttgcaaacat tcggctggag atgaactaca gccctgagaa gttcaagtta tcacagccgc 180

ttatggaggt gcttgggggtg gaggtggaca ctctgtcacg ggtgattgct gccctctggc 240

agtatattaa agcaaagaag cttcagaacc caaatgatcc ttccttcttc atgtgtgacc 300

ctcaattgaa gaaggtgttt ggggaggaca agctcaagtt tgcaatgttg tcacagaaga 360

tatcttaaca tctgtatgcc ccaacaacca ttaatttgga gca 403

<210> 13278

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-D4

<400> 13278

tcccgggtcg acccacgcgt tcgttggcat cgattaatct cgggacattg tcatagagag 60

tgcacgcagg atgttcatcg agacggttgc agcccagcat gaagagcggg aagaagagga 120

tagtgactaa gcttatattg tttgtgtttg cattcctcag ctggcagatt caatttggtt 180

ccaacgttca ctgatactat gtgatattgt ggggtcaaatt ttccagggtt ttcttattac 240

ctggttgagc gcttgaatct gtcaacagtt tatggatcat attgcattac agttagagat 300

gtctgcgtgg gtcagcaaaa tcttgggtgtt agtaaccttt tgagctgtga cataacttct 360

ttatcttatt taacacatca aagatgatta gtgcacttat atcgttgcac gataaat 417

<210> 13279

<211> 231

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-D6

<400> 13279

cggacgcgtg ggtgtcgttc tacctgcacg ctgcgcctaa cgttggcacc ctcttacgac 60

tgcaacaatt gctgccattc aaccaacttg ctttgacaaa cccagcagcg ttctaccaac 120

aacccatcat tgggtgggcc ctctttttaga ttgcttatga gttatagttc aataataaag 180
 tttttttgat gatgtttgtg gcttcccaga aataagaaag tacatttcta a 231

<210> 13280
 <211> 336
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-E1

<400> 13280

tcgaccacg cgttcgggct aatcagagaa ggctagtggc cgtttcataa gagcattagt 60
 cgcactcttg ttagacgtct gatctgaatg tctaattcca catgacacat tttgtaaaaa 120
 ggctgtagct tcttttagcct tattagactg ctaatacact catctgaatg atgtccagtt 180
 ccatcaacaa ggctttaccg atactgtcga gtgactgac aggatcatgt ttcttgtttc 240
 acgtcttgct tctgtgcatt tgcctaataa acccattcgt tgtaaacaag ccagtttcta 300
 ctttaaaata aagggcctgt gcatggcgct ctaaaa 336

<210> 13281
 <211> 186
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-E9

<400> 13281

cccactcgtc cgcccacgcg tccgaaataa aaaaaaatc taaaaaaaaa aaaaggggga 60
 aaaaaaaaaa caaaaaaaaaa aacaaatagg ctcccgatct agacaatcac caccttacta 120
 acgctttcat cctatctcat agtctctcta tcgtctgacc taagttaat tcaatgacca 180
 cctcta 186

<210> 13282
 <211> 213
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-G1

<400> 13282

ccttattccc gggtcgaccc actcgttctc tgactcgtgg tctgactcgt gggataaaaa 60
 aaaaaataa ataaataata aaataaagaa gagatttcta actatctaaa aaatccaaaa 120
 cttacatata catacatata acatcataaa ctcttctata atatcaccta aattcaatta 180
 actaaaccat atatttataa cataataact taa 213

<210> 13283
 <211> 385
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-043-Q1-K1-G3

<400> 13283

tccggaattc ccgggtcgac ccaacgcgtc gccacgcgt ccgctatgaa atcatttgac 60
 aacctgaaca actggcgaga agagtttcta gtgcangcta gcccatcaga tcctgataat 120
 ttcccttttg ttctgttggg taacaaagtt gatgtagatg gtggcaacag ccgctgggta 180
 tctgagaaaa aggcaaaggc atggtgtgct tccaaagga acattccgta ctttgagacg 240
 tctgctaagg acggaacgaa cgtggaagac gccttccagt gtatcgtgaa gaacgctctg 300
 aagaatgagc cagaggaaga actgtatgtg ccagataccg tggacgtggg ggggtggcaac 360
 cgggccccaa gatcatctgg ttgct 385

<210> 13284
 <211> 385
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-G4

<400> 13284

cccgggtcga ccaacgcgtc cgccaacgct tccgcaaaa ttatttaaag aaagagctga 60
 ggttggtggt ccaattgagt tggataatct gggaacgcta cacggtgata aggcaagccg 120
 aagcattcac atcacatcat ttgaaaatct tggtagcgcg aagggtgttg aagcttcctc 180
 cagttcagac aagaacatgg cctgtgatcc ttcattgaca gcatgaatgc ctgttatcga 240
 ggcacctgat cctgctttgc aggtgaatgc tcggaggcac ggaaccagaa acaggacttc 300
 caccgtgaaa gctttagaag ctgatgcgtt tggacttctt ggaagcggga agcgtaaggg 360

tgacatgaag aacagggcga caagc

385

<210> 13285

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-G6

<400> 13285

tgcagttcaa ggatgtttgt gttaaagttg caaatgttga gctatactac aaggcaggtc 60
acttctatatt gcaggagcat cctgatctca tcaatgatat gctgaatgtg cttgcacttc 120
gttttagatca taccagagtt gtagacataa tgcgcaaggc tggatcaattg catcttgtga 180
aaccatatat ggttgcagtt cagagtaaca atgtctctgc tgtgaatgag gccttgaacg 240
aactttatgt tgaagaggaa gactacgaga gactccgtga atcagttgat atgcatgaca 300
actttgacca aataggtctt gccagaagc ttgagaagca tgaattgctg gagatgagga 360
ggattgctgc ctacatttac aagaaggctg gcaggtggaa gc 402

<210> 13286

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-G8

<400> 13286

tgcagcccta cggcgactcc ctactgctcg cctcagcgcc agtcggtgag gtagcagggt 60
tgccagcagc tgatgcaggt ggagcctcag caccggttcc agacgatctt cggatcggac 120
cttcagctca ttctgcagca tcagccacat agaggacagc tagtggcgct gctggctgcg 180
caaatagcgc agcaactgac ggcgatgtgc ggactgcagc atacgactac atgccatac 240
gctgctggcg gacgtgaacc gactgaagaa actatgtgct gtactatagc cgttggctag 300
ctagctagca gagtcattta gcggcgatga tcgaatcatg atgattgacg catgatcatg 360
ggtggaacga acagtgtgaa caatagcctg 390

<210> 13287

<211> 301

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-043-Q1-K1-H4

 <400> 13287

 ggaattcccg gtcgaccca ttcgtaccat cataaccgac ctgatgttcc ttgccttcgg 60
 gtttgcaatt ttcttgggtcc ggaaggcact catctggggc aagaaatcct aaggcgccgt 120
 gccattaacc accatgtttg ctctggtact cctctggttc ggcatctccg tgccattggt 180
 ctttatcggc agctacctcg gcttcaagaa acctgccatg gangaccag tgaggacaaa 240
 catgatagca cgggcaatac cggagcagcc atggtacatg aaccccgctg tctcgggtgct 300
 g 301

<210> 13288
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-043-Q1-K1-H6

 <400> 13288

 gaattcccg gtcgacccac tgcgtccggtg tatcacaaga gacatctagg ttgacctcac 60
 tcttcttagt gttcatgccc ggtaggcaag acatcacgc atctccgatg gagttggaag 120
 atttcatcag ttctgattgg atctggatga gatggactct gcttgtaagg agagagagag 180
 agtgcattgg ttgcgaggag catatTTTTTg ttcattcttt tcatgagtca tgttacctgc 240
 catgtcagat tatgtaactt cagatatTTTc tgTTTTTggt agaaaagtac caaaatagtt 300
 tcacttcattg gctactctca gatgtgttat tgctgctgcc actaatcata taagggtaac 360
 attgtatttg atagccaaca atTTTTgaga tattaaagtt ggggataata taattgctgg 420
 ttgtttc 427

<210> 13289
 <211> 203
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-044-Q1-K1-A12

<400> 13289

atgcattcat tcaatcacat cggatatggtt tttaataaat atgcāaaaat tcctctaata 60
actcttattt caactctgca ctatttctaa ccatatccca tggaacttgc cacaactact 120
gatgccattt actaccatga acccatggat tcaatactcc atgaagcaac atcctgttgc 180
caacttgcta acgtaaacca ccc 203

<210> 13290

<211> 456

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-044-Q1-K1-A5

<400> 13290

cgggtcgacg cacgagccac gcgtccgcgc tgtaggggtt tctggtcctg gtaggcgagc 60
tggggaagac gcaagggtact gcgggtgcgc gcgaggggtc gtcggacgac cgacgaggac 120
gagcggcata ggcgcggtgca tggcgctcac gaacttcac ctcacggtgg tgggggtggg 180
cgcggcggtg atgctgctgc ggaaagacgt caagcagtcg gccaccgtct tccgccgcaa 240
cgtgcgccac atccgcaact ggctcgagga ggagtccgcc gccgccgtca aatctactga 300
acagtcttca gtgaaggagt tggagtccca agctgccaag aaagacgctg tgccaagga 360
cgacaaacat tagatgatct tacacctgg ttcttgtaat gcgtnggcag tttgagggtcc 420
aggattttga attggtcctt taaaaaatg tatgtg 456

<210> 13291

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-A6

<400> 13291

tcccgggtcg acccacgcgt gcgcggacgc gtgggtttgg aaacaagtat catctggatc 60
taatgatctt atgtggggta cggatacaaa atagacatcg acgagtggaa cgcaacatga 120
gaacgacgaa tccacacgga gtgtaagaac cgcttcttct cctctagtcc tctgaggaga 180
tcggtcggat cagaagactg acgagacgat cgcagagacc acggcgagcg cgacgctgcc 240

tcggacccca gcttgagacc tgataacggc gctgtcgctc gccgggctgc ctccggctga 300
 tggcgtgatc ttgggagggt ttgccaaaaa gcccgtagtc tggcgagccc ggtttcaggt 360
 taaccagggt gatgcaaacc gagacgttgg cgttggggag gctgcaggcg gcggggagcg 420
 ccaggaggcg gtcgaagcgc aggccgagcg 450

<210> 13292
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-B11

<400> 13292

cgaccaagc gttcggccaa gcgttcggtc atgcccgcg tttgtgatta ctttgggtgt 60
 aaaggccatg cgtgtgttgg aggaacattc gtccgtgagg accaaaggat tcttggcagt 120
 ggtgtgcatg ttgttgttgg tacacctggt cgtgtgtttg atatgctgcg cagacagtcc 180
 ctccgccctg ataacatcaa gatgtttgtt ctagatgaag ctgatgaaat gctttctcgt 240
 ggtttcaagg atcagattta cgacatcttc cagcttctcc cagccaagat tcaggttgga 300
 gtcttctctg ctaccatgcc cctgaggcc cttgagatta cccgcaagtt catgaacaag 360
 ccagtgagaa tctcgtgaa gagagatgag ctgactcttg agggatatcaa gcagttctat 420
 gtgaatgttg a 431

<210> 13293
 <211> 454
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-B12

<400> 13293

cggaattccc ggtcgacca agcgttcgga ggtttact ggatctgccg gaaacattca 60
 ccggccggtt taaccggttg gcaggggcag gcttgggttg ttgaaaggat cctctgaatc 120
 catgggggcc tatctccgga gttgaacaag cttgagcaaa tactcaacct gaatcgcccc 180
 acagacgtgc ctgatactgg attgctctgt gatcttcttt ggtctgatcc ttccaatgaa 240
 gcaacaggct gggccatcaa tgatcgtggt gtttcattca catttgggtcc tgataaagtt 300

tctgaatttc ttgagaagca tgatttggac cttatctgcc gagcacatca ggttgtcgaa 360
 gatggatacg agtttttcgc tagccgtcaa ctgtaacaa tattttcagc ccctaactac 420
 tgtggagaat tcgacaacgc tgggtgcatg atga 454

<210> 13294
 <211> 455
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-B3

<400> 13294

ggatttcccg ggtcgaccca cgcgtacgaa aagcctgacg gctgtaacaa tgaccttaag 60
 tttcatagtc catgctaaga gactccgggg tgtaaagaat gcggactcaa tgctataaat 120
 ataagcttag atacactagt acctgcaaag ttgacttca tgacacggcg tcaaggacac 180
 tcagaggtct tgtaatcaat agatgctgct gtaaaacttg ggtatagccc tgtaaggtc 240
 aactgtgtca tcatgcatgg tataaatgat gatgagatct gcaattttgt tgaattgacg 300
 agacacaagc ccatcaacgt tagatttatt gagtttatgc catttgatgg taatgttagg 360
 aatgtgaaga agctagttcc ttatgcatag atgttggaca aagtgcggca aaggtttaa 420
 ggagtagaga gacttcaaga tcacccaca gacac 455

<210> 13295
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-C2

<400> 13295

tgattgtctt ctgcccattg gaattacttc taaaaatgtt gcccatcgat atggtgtaac 60
 taggcaagag caagatcagg ccgctgctga gtctcatagg agagctggtg cagccacggc 120
 ctctagaaaa ttcaaggatg agatcgctcc catgccaaca aagatcgttg atcctaaaac 180
 tggagaggag aaggaagttg tgatattagt tgatgatggg attaggccat ctacttacct 240
 gctatatttt ttctgagcaa agtcggttaa acttgtgatt ctttgtatgt tcagggtgcc 300
 ggtgcgtggc tactcttcta aatgaaatga actgccgggg cagagactgc agaattggtg 360

ttgtcaccat gtggattgga tctggaatgg gggcaacagg tgtgttcgaa gtgtgttc 418

<210> 13296
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-C4

<400> 13296

ggaattcccg ggtcgaccca cgcctccgga tcatgggtccc tgagatgatt ggaagctttg 60
ttggtgtcta caacggcaag accttgacc aggttgagat caagcctgag atgatcggcc 120
actaccttgc tgagttctcc atctcctata agccggtcaa gcatggcagg cccggtatcg 180
gtgccaccca ctctcgcggg tttattcctc tgaaatgagc tgttaccggg ctctgtagtc 240
tcccaagagt cagttggcaa tgttcgttca gcttttctac ttgttttgaa caagttaa 300
gccaagata ttttgttttg ttccattcca gctcaagaat tcaaagctaa gcattgcaca 360
attatgctgt tttgttggaa gtttttgagt taatcatatc taagctgagt tgct 414

<210> 13297
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-C6

<400> 13297

cacatttgaa ggtgctacta ccctaacctc gtcagggttc atcaccagca ccagagcctg 60
gggcccattg ggcaccgaga acgggacacg cttctgcatc accgcgcca tcggcagcag 120
cgtcgtggga ttctacggac gcgcgggaac caggctcgtc gacgctatcg gtgtctacct 180
gcgtaactt tgatttcaac ggcatgatgc ttgatttcaa atagatatat taattagttc 240
ctcgtcacag tcgatcctgt gtcaaataat aaagaagctc ttgtatgcat gtgtatatgt 300
tagtccttcg ttctgtatgt gtcaaataaa gtttgatcaa aaagacctaa aaaacaaaaa 360
atacagctga gcatattaag acacgtataa taaagacgag atatatagaa caatgaat 418

<210> 13298
<211> 459

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-044-Q1-K1-D1
 <400> 13298
 tgattaccaa ggctgcgaag aagggccaga tgccgtcgca gattggtggt ctgctccgtg 60
 accagcacgg catcccgctt gtcaagagcg tgactggtag caagatcctc cgcatacctca 120
 aggcccatgg gttggcgccg gagatcccg aggatctcta cttcctcatt aagaaggccg 180
 tggcgattag gaagcattct gaagagggaa ccaggaaagg accaaggact tccaaaattc 240
 aagacctcaa ttctttgggt gaaaagccaa gaatccaacc ggctctggcc cggttcttcc 300
 aggcgtagca agaagctccc acccacctgg aagtacgagt caaccacggc gagcactctg 360
 gtggcctaag tgatatactc tgatggcttg gtcttttagca cctatgagct tgttctagat 420
 atgaatttat gtaattcttg ttatgtctgg agctggtta 459

<210> 13299
 <211> 454
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-044-Q1-K1-D4
 <400> 13299
 tccccgggtcg acccacgccg tccggccaag ccttcggaaa ccggttggac cacaagccaa 60
 ttctaagggg gtttacattg gcccgaccgg gatttaccgg ttccttgacc tacttaaggg 120
 gaaagtttgg aatccaaaca tctacataac ggaaaacgga atggaccaac ctggaaactt 180
 gacccgagac cagtacctgc ggcagccac gaggtgctg ttctacagga gctacatcgg 240
 ccagctgaag aaggccaatag accagggagc gaacgtggct ggctacttcg cctggtctct 300
 cctcgacaac ttcgagtggc tggcagggtg ctggtccaag ttcggcatcg tctacgtgga 360
 cttcaacacg ctggaacgcc accgaaggc gtcggcctac tggttcaggg acatgcttca 420
 gaagcattga gatctccaga gccgagcctg agca 454

<210> 13300
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-E5

<400> 13300

cccacgcgtc cgcggacgcg tgggcaacag ttcgacatag tcagttggtt gaatggaagc 60
agctgttgca agtaggcagc agggtttgcc acaactagct gagtcagagc tggtagaatc 120
tgttgcaaca attgttggtg caggtagtga ggtgcattgg ccacagcgag cgggctagat 180
gaaagcagtt gttgctgttg taggtaggcg gcagggttca ccatggctag ttgactgagc 240
gctggcagaa actgttgtag ctgttggttg ggctgggttg caactacgtt tgccagagca 300
agtgggtttg atgcaagcaa ctgctgttgc aagtaggcgg cagggttcac catggctagg 360
tggtcagtg ctggtaggaa ttgttggtgc tgttgcttg c 401

<210> 13301

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-E8

<400> 13301

cggacgcgtg ggcggacgcg tgggcggacg cgtgggcgga cgcgtgggga gagaccgagg 60
cgcccgcggt tctgctttcc ttccttgccc cgttcacgag agaattttct ggagtcttcg 120
actcgagcag ggttccgatg gcgctgcaat ggatgacctt ggcgtgcgtg gtggcggttg 180
aagctgcggt ggctgcgctg gtcacgctcc cggcgccccg cgctgtgcgg ggccagatcg 240
tcgcgtcac gtccttggtc ctgcagcccc tgtccagtgt gatacccttc ggcgcttcc 300
agatcctcga tctctactgg aagaaggagc acagactgat gtgcacctcg gagatttgca 360
ccgccgaaga gcgcattcgc ttcgagaaat ctatgtttta agctcagaga aatgtc 416

<210> 13302

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-044-Q1-K1-F9

<400> 13302

tggcgtcgtc gtctagcagc agccaccggc gntcctcct cgcagccgcc gtctgtctct 60
 ccgtgctcgc ggctgccagc gccagcgccg ggacctcctg cgtgccgggg tgggccatcc 120
 cgcacaaccc gctcccagc tgccgctggt acgtgaccag ccggacctgc ggcacggggc 180
 cgcgctccc gtggccggag ctgaagagga gatgctgccg ggagctggcg gacatcccgg 240
 cgtactgccg gtgcacggcg ctgagcatcc tcatggacgg cgcgatcccg ccggggcccgg 300
 acgcgcagct ggagggccgc ctagaggacc tgccgggctg cccgcgggag gtgcagaggg 360
 gattcgccgn caccctcgtc acggaggccg agtgcaacct ggccaccatc agcggcgctc 420
 ccgaatgccc 430

<210> 13303
 <211> 116
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-044-Q1-K1-G12
 <400> 13303

tccggatttc ccgggtcgac ccacggttcc gggaccctt ggcaccaacc ccaattttac 60
 ctataaattc attcagagag cctccagcg ggggattaaa tggcttcttc gctaac 116

<210> 13304
 <211> 300
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-044-Q1-K1-G2
 <400> 13304

tcccgggtcg acccagcct ccggaggaat tttcctttat tttaaaaggg ttgttaccgg 60
 aagaatgcca cttcaacct tgcggggatg gaagcctgtt aacgtgtcaa ctctggatgt 120
 gacctcaagg cctccgtgat gatgggagcg gacacctatg aaactgaaga agaagcttca 180
 aagctactgt tagctgggaa ggtcccagtt ggaataggaa ggaacacaaa gataaggaac 240
 tgtatcattg acatgaatgc taagattggg aagaacgtgg tgatcacaaa cagtaagggc 300

<210> 13305
 <211> 185
 <212> DNA

<213> Zea mays
 <223> Clone ID: LIB3059-044-Q1-K1-H5
 <400> 13305
 aagaaaaaaa aaaaaaaaaa aaaaaaatta aaaaaaaaaa aaaaaaaaaa aaaaagaagg 60
 ggaaaaataaa aaaaaaaaaa aaaaaaaaaa aaaaaaggcc gcccgttcta gaggtcccag 120
 gtttacgtac gcttgcacgc tacttcatag ctcttctatg gggtcaccta atttaaattg 180
 attgc 185

<210> 13306
 <211> 383
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-044-Q1-K1-H8

<400> 13306
 tccgggtcga ctacgcgctc cgcccacgcg tccgccacg cgtccgcaca cagaagcggc 60
 ggcggcgag caaacgcagg cgaaggcgag ggtgtgaggg aaggagcacc agccatgggtg 120
 cacgtcaact tctaccgcaa ctatggtaag acgttcaaga aaccaaggcg tccttatgag 180
 aaggagcgctc ttgatgctga actgaagctg gtcggtgagt atgggctgag gtgcaagcgt 240
 gagctttgga ggggccagta tgcactgagc aggatccgta atgctgcaag gcacttgctc 300
 acccttgacg agaagaaccc ncgtcgtatc tttgaggggtg aggcgcttct tcgccgcatg 360
 aaccgctatg ggctgcttgc tga 383

<210> 13307
 <211> 432
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-045-Q1-K1-A11

<400> 13307
 accggttcgg aataccnggc ggggaccaag cgtccgcgca cgcgtccgag gacgcgtggg 60
 ttttgttttc aatttccatc ccaagaaaac ttgcgagggc tacaaagtgg gatgcgattt 120

gcctgggaaa tacagagtag ccctggactc tgatgctctg gtcttcggtg gacatggaag 180
 agttggccac gacgtggatc acttcacgtc gcctgaaggg gtgccagggg tgcccgaac 240
 gaacttcaac aaccggccga actcgttcaa agtcctttct ccggcccga cctgtgtggc 300
 ttattaccgc gtgaacacat caggtgatga tgcacttacc aatgcattgg agatattcaa 360
 tacatctagt ggagctcttc acttcattgc atctaacaat gactgtagtg gtagagagta 420
 tgatatggaa ag 432

<210> 13308
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-A2

<400> 13308

aagcaacata gaaagtggaa tccagtagca ccaatagagc atcaatggag accaagggat 60
 tttccctcct tatgtcctt gctctttcta catgtgttgc taacgcgaca attttccctc 120
 aatgtcaca agctcctata gcttcccttt tcccccata ccttccatca attatagctt 180
 cagtatgtga aaaccagct cttcaaccat ataggcttca acaagcaatc gcagcaagca 240
 acataccttt atcgcccttg ttgtgtcaac aatcgccagc cctatctttg gtgcagtcac 300
 tgggtacaaac catcaggga caacagctgc agcaactcgt gctacctgtg atcaaccaag 360
 tagctctggc aaacctttct acctactctt cgcaacaaca atatcttcca ttc 413

<210> 13309
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-B4

<400> 13309

ttcccggtc gaccacgcg ttcgtcgaa tctccctagc aatctctagc agcagatcct 60
 cgtgcgaagc aaagcgctag ggccgttcgt actgtcccga tggcccgac gaagcagacg 120
 gcgaggaagt cactggcgg caaggcgcca aggaagcagc tggccaccaa ggcggcgcgc 180
 aagtctgcc cggcgaccgg cggagtgaag aagccccacc gtttccgccc cggcaccgtc 240

gcgctccggg agatccgcaa gtaccagaag agcacggagc tgctgatccg caagctgccg 300
 ttccagcgcc tgggtgcgtga gatcgcccag gacttcaaga ccgacctccg cttccagagc 360
 tccgccgtcg ccgcgctgca ggaggcgctc gaggcctacc tcgtcgggct cttcgaggac 420
 accaacctct gcgccattca cg 442

<210> 13310
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-B6

<400> 13310

tgtagatgct gctaacatgc acatggagat tggtagacgc atatacagag agaggttgga 60
 aacgagtgat cgtgatgctg acatggaaca aagacgggca tttcagaagt taatttatgt 120
 gtccaatctt gtctttggag atgcatctgt attcctactt ccttggaac gtctgtttgg 180
 ggtgactgat tctcagattg acattgctat gagggaaaat gccaagaatt tatactcggt 240
 gcagctcaag tctattggaa gaggtcttga catatgcaca ctcatgaag taaggagagc 300
 acaacttgca tataaactgt ctgatgagat tgctgctgag atgttccgtg agcacgcgaa 360
 gcagctagtt caagataaca tttcatcagc attagacatc ttgaagtcac g 411

<210> 13311
 <211> 351
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-C10

<400> 13311

cacggctctc gctctggcca tccttttcat actctacttc aagctcgctc attaagggtg 60
 cctgcaggta gggtccttcc acatatctgt gctcagtaat tgtgtgataa gagttgtctg 120
 aatgctgtgt attgagcgac acacggctct tgaagcatca tttattccct cccaaacctg 180
 taaacttaac gtggttcattg ttgtgtacag tcagatacgt ccaactatgt aaacctaacg 240
 cacgttggtc tgctgtgcta actaaactag agaggttagt aaagcagtac ttcgtatgta 300
 actgttgtgt gtgcatcggt ctattcgaac tgctgtggct gtgggccttg g 351

<210> 13312
<211> 179
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-C6

<400> 13312

tgaaaacgaa aattatacct ctctcttgta ttattattga tatatttttg tgggtacgaa 60
actcgatcag atgaaacaca tccgagttag atgacgcagt cagatgactg agtggttggtg 120
tctgacatcc aaggtgaaag atgtatacgt ctgcaacgtc tatgtagatg tacttaatt 179

<210> 13313
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-D3

<400> 13313

attcccgggt cgaccaagcc gtccggcctc tcaggaaatt gaccaggacc atgaacctgg 60
ttaaaaggct tgccaagaag tgccatgctt tcttggcatc agaggccatc atcaagcaga 120
ttccccgtct ccttgggtcct ggtctcaaca aggcaggcaa gttcccgacc ctggttactc 180
accaggaatc cctcgagtcc aaggtgaacg agactaaggc aaccgtcaag ttccagctca 240
agaaggctct ttgcatgggt gtcgccgtcg gcaacttggc gatggaggag aagcagatcc 300
agcagaacat ccagatgagc gtcaacttcc ttgtttccct tctgaagaag aactggcaga 360
atgtgagatg cctgtacgtc aagagcacca tggggaagcc atacagggtg ttctaagtat 420
gctcttttgt gaagtctgc 439

<210> 13314
<211> 417
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-045-Q1-K1-D4

<400> 13314

tcaaccgctc cggatttgac ctgggtgatg caaactatct taggtatcat ggtatggaag 60

agtttgatca ggcaatgcaa catcttgagc aaaaatatga attcatgaca tctgatcacc 120
 agtatatttc ccggaacat gangaggata aggtgattgt gttcgaaaag ggagatttgg 180
 tatttgtgtt caacttccac tgcaacaaca gctattttga ctaccgtatt ggttgtcgaa 240
 agcctgnggt gtataaggtg gtcttggact ccgacgctgg actatttggg ggatttagca 300
 ggatccatca cgcagccgag cacttcaccg ccgactgttc gcatgataat aggccatatt 360
 cattctcggt ttatacacca agcagaacat gtgtcgtcta tgctccagtg gagtgat 417

<210> 13315

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-D8

<400> 13315

cccacgcgtc cgtccacgcg ttcgattacg cgtccgcggt gtttctaata tgaagaggtg 60
 gaacctgcca ctgatggtgt ccaaataaga taaatatgac cacagattac agatttgata 120
 tccagggact ttctaatacag cctattataa tctgaagata aatcttgtat cacctgtccg 180
 gtgaccata gtaatattat gttactcttg ctgtaagcag aggttaacac tagaaaaagt 240
 attgtgattg gtctgaactt tttgtgcggt ataaagcatg tgattcagct caacttgact 300
 tttccaactt taccgagcat atacaattgt gattaatata gaggctctta aggtgtttaa 360
 ataaccaatc caagcatgac aagcaaacc 389

<210> 13316

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-E1

<400> 13316

tccacgcgtc cgattgagac caacatgtca catagaaagt ggaatccagt agcagcgata 60
 gagcaacaat ggagaccaag atattttccc tccttatgct ccttgctctt tctacatgtg 120
 ttgctaacgc gacaattttc cctcaatgct cacaagctcc tatagcttcc ctttttcccc 180
 cataccttcc atcaattata gtttcagtat gtgaaaaccc agctcttcaa ccatataggc 240

ttcaacaagc aatcgcagca agcaacatac ctttatcgcc cttgttgtgt caacaatcgc 300
cagccctatc tttggtgcag tcattggtac aaaccatcag ggcacaacag ctgcagcaac 360
tcgtgctacc tgtgatcaac caagtagctc tggcaaacct ttctccctac tc 412

<210> 13317
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-E3

<400> 13317

tcccggttca accaaccctt ccgcgacacc cttggtaaaa aaacaaatat ttatttaaaa 60
caaaaaataaa aaccaacaag ggtaagctta tcaactatat ccaaaaaaaaa agcaaactaa 120
ctttctaact gttcaatact cttgacattc tttgagtaaa ctttagatat cctctcatac 180
attcattatc cagtacctga ttgtccattg tctctatatt ctttactgtg acattatatg 240
gttgactcgc atttcccatt tatccagttt ctgttatact accattgctt ct 292

<210> 13318
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-F12

<400> 13318

tgcaatcggt ccaaaaccag tatgtttttg ttgacgaaga atatagaaca gcagcggatt 60
ttgttcgtca aaaactggac tcaagcgagg cagacgaggt ggatgaatct gcttgtgtga 120
taaaaaaatg ttctgaatac gctgaaagat atttcaatga aactgcacaa gatgtggtag 180
tacttgagtc agaaagcact gatgaatctg aagtttgcca ctgtgagacc attgcttgca 240
cattctctaa ccttgataat catgctggga aaattgaaac tccaggactg cacagaaagc 300
ggctccctag agttttccct ggagatacaa ctactacaca tgacatcatc aagcttcatg 360
ggaaagagaa actgccagta caatacctgc cacagaggag acgaaatggt gaaaaggaga 420

<210> 13319
<211> 448

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-045-Q1-K1-F3
 <400> 13319
 ggtccggaat tcccgggtgg accaagccgt ccgaagcatt cggatctgaa atcctaaccg 60
 gaggtgagac cccaatcgg tgatccaccg cttgcccgtc ggtaccatgt ccgctggaag 120
 cgagaggccg tacgccttct cgccccgtc ggcgggtccc ggcccccttct cccgcggctc 180
 cggctccgct cccaccacgg ccgcgacaga tagcactggg aggagctcgt cctccgtggc 240
 gccgacgaag agccgaaagc caccgttccg gcccgccgtg gacgacaaa agcccgtcct 300
 ccgcgatccg atatcacgct cggacctggc ggtcaccgag caggtcgtgc tgcggctgcc 360
 gccgttcccc taagttcgcg ccaccaatg ttctttgctc aaccatatta atctaaagat 420
 ggtgcccttt ctgcgcatgt tcgtcaac 448

<210> 13320
 <211> 203
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-045-Q1-K1-F5
 <400> 13320
 tcggtccgga ttcccgggtc gactccacgc gtccgcccac acatacgaac acaagttcag 60
 ttttatcata atagaactat aattcttcta gggaactaca atctgttcta ttccttctaa 120
 ttactcaaat gaactctact acatattgtc atcaatttcc actcacattg acccagctat 180
 attcacttta atattatcaa aaa 203

<210> 13321
 <211> 298
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-045-Q1-K1-F9
 <400> 13321
 ggattcccgg ctcgactcac gcgtccgccc acacgtccca atacgcgttg aatttaaaac 60
 aataaaaaca tatcttcggg aaagagatca aaatggcaaa taccataacg aatctgaaaa 120

accacctaaa gctcgcacga tactacactc tcaaactct ctaccaaact tgcattgatct 180
tctttgaagt ccacatttaa cagatcaata ttcattctaac tactttggac gatactctga 240
tttgaactaa atgtattaac tgtaacatag caatctctga agacgtacaa cattgaaa 298

<210> 13322
<211> 89
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-G8

<400> 13322

cggacgcgtg ggatcgcgag ctgattgtct aacgattatt tcttggctgc ggaatggcgc 60
ctgtaagaga taatatggca tatttgcag 89

<210> 13323
<211> 134
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-H12

<400> 13323

agaaatgtac tttcttattt ctgggaagcc acaaactca tccaaaaaac ttcattattg 60
aactataact cataagcact ctaaaagagg gcaccgccaa tgatgggtcg ttggtagaac 120
gttgttgggt tcgc 134

<210> 13324
<211> 290
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-H4

<400> 13324

cggtcgggaa ttccgcgctc gacctacgcy tcaccgctcc gaccagctgc tctcgctcat 60
catcaacacc ttctactcca acaaggagat cttctctcagg gagctcatct ccaactcctc 120
cgatgccttg gacaagatca ggtttgagag tttgacggac aagaccaagc tggatgcaca 180
gccagagctg ttcattccaca ttgtccccga caaggccaac aacacgctga caatcatcga 240

cagcggcatt ggtatgacca agtcagacct tgtgaacaac cttggtacca 290

<210> 13325

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-H5

<400> 13325

cccacgcgtc cgcccacgcg tccgtatcaa catagaaagc acaatagtgt accaacgatg 60

gcagccaaaa tattttgcct ccttatgctc cttggtatct ctgcaagtgc tgctacggcg 120

accattttcc cgcaatgctc acaagctcct atagcttccc ttcttcccc gtacctctca 180

ccagcgggtgt cttcgggtatg tgaaaaccca attcttcaac cctacaggat ccaacaggca 240

atcgcagctg gcatcttacc tttatcacc ttgttctctc aacaatcatc agccctatta 300

cagcagttac ctttggtgca tttattggca caaaacatca gggcacaaca actacaacaa 360

cttgtgctag caaaccttgc tgcctactct cagcaacagc agtttcttcc attcaa 416

<210> 13326

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-A11

<400> 13326

cccggttcga gccacgagtc acgcgttgac aactagaga ggatttgatg aaagcccttg 60

atgttatcag cagagttggt gatcttgtgg gcatcaaata cttccctgca gaaccaccaa 120

agattgctga agctggatcat ggtaagcggg agtaggagcg aaccctgaat cgcccatga 180

gtgattgaag ttgttagaat cccttcgga gttatcaaca gatcattatg gaagcaagca 240

tatatggagc cgtattagga agctgacagt tatttggtga ttgtacaact gttcttgcaa 300

ttgtgtatag ctgggtgaaa tttagttggt ctgttgctaa tctgttccaa atacgtagta 360

gattcggagg caatataaac tttcagcaga gcattactga gtttccctc gcagaccact 420

gacgacaatg 430

<210> 13327
 <211> 308
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-A2

<400> 13327

ttggtttttt tttttttttt tttttttttt cacattaaaa tgtggaaagg taacttttta 60
 tttttggtgg gccacatact cggatcattt tgctaccata tggacaaagg tagcaaaaga 120
 aacaaaagga tatgcaaaca gcagcagttg aagtaggatg tacatattca ggggaatttg 180
 acctgttact gtgcaccggg aatagctaca ctcatgaaa atcatgccac tggcttatac 240
 acaaacggga ccacactctt cattccccgaa ggatacattt ctatggattt tcttggggat 300
 tggatatct 308

<210> 13328
 <211> 375
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-046-Q1-K1-A9

<400> 13328

tcttcaccaa tctcaccgag agcggcggcc ggctgcagct gatcgacctg tactacgact 60
 ggcccagggg ccgcaacctc aacctcatcc gggaccagct ctccagcgac ccgctctacg 120
 acgtcgagtg gaccaacggc acctnctact tcttcgactc cgggtcctgc cgcaccatgc 180
 gtttccccgt ggggatcctg ccgctgact ggctcgccgc cggcgccgtc tatctcggcc 240
 gcgagcacgt cgacggcttc gactgccacc tgtggaccaa ggtcgacttc gtctggtact 300
 acgaggaagt cgccaccggc cgtcccgtcc gctggaattt cttcaatggg atgcagcagc 360
 atgtgatgag ctttg 375

<210> 13329
 <211> 335
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-C6

<400> 13329

cccggatcga cccagggcgtc cggaccagct ggccaaattc taacacctag gcgctcggcc 60

gagatggccc ccaagcgctc tgcgccacct gcgccgcctc cgcccacggc tgactcctcc 120

gaggagaccg cctctgggtc gggctccgag gaggaggagg aggaggagga ggaggaggat 180

gatttggaga ccgtccactc accgtcttcc gtcgctccca agagcgtagc tccgatgccg 240

cataacgtcc aagagcccgga agcgtccgac gaggatgagt atgacgatga agatgacgag 300

ccgtataagg tacaagaacc cgaaacgtcc gatga 335

<210> 13330

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-D6

<400> 13330

tagcaacata gaaagcacia tagtgtacca acaatggcag ccaaaatatt ttgcctgctt 60

atgctccttg gtctttctgc aagtgtgct acggcgacca ttttcccaca atgctcacia 120

gtcctatag ctcccttct tccccgtac ctctcaccag cgggtgtctt ggtatgtgaa 180

aaccaattc ttcaacccta taggatccaa caggcaatcg cagctggcat cttaccttta 240

tcaccttgt tcctccaaca atcatcagcc ctattacagc agttaccttt ggtgcattta 300

ttggcacaaa acatcagggc acaacaacta caacaacttg tgctagcaaa ctttgctgcc 360

tactctcagc aacaacagtt tcttccattc aaccaactag ctgcattgaa ctctgcttct 420

tatttgcaac 430

<210> 13331

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-E9

<400> 13331

gaattcccgg ctcgaccac tcgtcctaaa aaaaaaaaaa aaaaaaaaaa aaaatttaaa 60

ttaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaataaaaaa atacaaataa ctacaaaaat 120

caacaaataa aaaataaaaa aaaaaaaaaa aaaggccacc ctttttaaag gttcaaagtt 180
tacttcccct tacttccaac ttattacctt ttttataggg tcccctaaat taaattaatt 240
gcccgttttt ttaaaactta ttaactggaa aaaccttggc tttaccaaat tttaatccctt 300
ttaaaaaaat ccccttt 317

<210> 13332

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-F10

<400> 13332

accggtccgg aattcccggg gtgggtactt ggggtcccta gccttcttca gggtcgtggg 60
gcgttgaaga agattgaaga taacaacact ctggtcttca ttgttgacct caaggcagac 120
aagaagaaga tcaaggctgc cgtcaagaag atgtatgaca tccaggcaaa gaaggccaac 180
accttgatca ggctgatgg gaagaagaag gcttacgtga agctgactcc cgactatgat 240
gctcttgatg tggccaacaa aatcggcatc atctaagtgc tgcattaggc atcctagttc 300
atctgttggtg tcttagttct atgtgaaacc agagttttgt agctatggct ctcaatcggt 360
ccattaccat gtgttatgca cacttctgaa ttgatatca tccaagtgaac cttttgaact 420
agtttgcgtt ctgcacttca ttacacttgg acacc 455

<210> 13333

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-G4

<400> 13333

cgattattac tcaatcatcg ccgctaatat gactcaacta gctagctagc cggcggcgat 60
actacagcac atagcttctt cagtggggga caccgccagc tagctagcta gttgagtcac 120
ttagcggcga cgatcgagtt ctcatgcgag acgcgtgagt cgccccggga attcaggacc 180
ggcacatgct ggcgtacaag ctgtccctat tgtgagacgt attagctcac tgtttaattc 240
agttcaagtc ttatgtgtat cttgccttgc tatccgagta ataatactga ggatgtggta 300

gtcatgatat atgtttattc tctgttggtt cctatcttat gcaattattc ataagagatg 360
ctgccaaaat tttattattg taccattgta agtatt 396

<210> 13334
<211> 394
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-046-Q1-K1-G5

<400> 13334

tcccgggtcg acccacgcgn tccgcattcnt ttcgtaggtt catgggaaca attttatggc 60
cttggatttg gtctcaatgg aacaattggt tggggcttgt ggacctatga tgtatttagc 120
agaacatgtg agctccgggt atctattgcc tttgttttgt taagccattg agtcaagctg 180
caattcttaa tgaccatttt acttcaatcc cgttttcttc agttctgtgt ttgttctgac 240
taacgatttg tattcaatgt ttttttctgt ctttcctaaa actcttaaag gcaagaaaaa 300
attgcacaag gaaaaacaca agtctcgatc tgaaaggcct caccgccaat ctaatatcac 360
cgaactggat aaaggcaaaa aacgacctgc acaa 394

<210> 13335
<211> 158
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-H1

<400> 13335

ctggaagact gcccctcccg cgcatatagg tcgagcgagt ggttgatata ccggctgagc 60
tctgaatgcc acagccacct gcttgatca atctatgatg ttggcagtct tgagaacacc 120
actgtgactt gttaaactctg tatgcttatt cccaaaaa 158

<210> 13336
<211> 140
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-H3

<400> 13336

aagaaactat gtgctgtagt atagccgctg gctagctagc tagttgagtc atttagcggc 60
 gatgattgag taataatgtg tcacgcatca ccatgggtgg cagtgtcagt gtgagcaatg 120
 acctgaagga acaaagatat 140

<210> 13337
 <211> 386
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-H5

<400> 13337

ttttgagcat tcagaaacac acctagcgaa gcgcactagc aacgacctaa caacagtggc 60
 taccaagata ttatccctct ttgcgcttct tgcccttttt gtgagcgcaa caaatgcgtt 120
 cattattccc caatgctcac ttgctcctag tgccattatt ccacagtcc tccctccagt 180
 tacttcaatg ggcttcgaac acccagctgt gcaagcctac aggctacaac aagcgcttgc 240
 ggcgagcgtc ttacaacaac caattgcccc attacaacaa caatccttgg cacatctaac 300
 catacaaacc atcgcaacgc aacagcaaca acaatttcta ccagcactaa gccaaactagc 360
 tgtggtgaac cctgtcgctt acttgc 386

<210> 13338
 <211> 451
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-046-Q1-K1-H7

<400> 13338

ccggaattcc gggtcgacct acgcgtccgc ccacgcgtcc gccacgcgt ccgcctacgc 60
 gtncggtaac ctttcaatag gcgtcgccca agaactagta aacatggcaa aactgttgag 120
 cctgttctta gccctctcct ttgtagcagc tatgtttgcc ataggctctc atgctgatgg 180
 agactgtgag aatgacctcc aaagcctgat aagtgactgc aagacatacg tgatgttccc 240
 agctaatacca aaggctccctc cttcggtatgc ttgctgtggt gtcacaaaga aggcaaacgt 300
 ttcttgcttg tgctccaagg tcaccaaaga aactgagaag gttgtgtgca tggagaaagt 360

tgtgtatgtt gctgagcagt gtaagaggcc atttgagcat ggcttccagt gcggaagcta 420
caaggttcca gcaaactgat gatatcaciaa g 451

<210> 13339
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-H9

<400> 13339

gacagtgtg agagagaggg gaagggatcg agagcgcggc ggaggcgatg gcgagcggag 60
ggaagggact caacgcgact ggggagttct tccggcggag ggacgagtgg aggaggcacc 120
ctatggcggg gaaccagctg cgccacgcca caccgggct cggcatcgcc atcgtcgcct 180
tcgggatcta cctcgtcggc gagggcgctt acaaccgct ctaccgcccc tccggcgaca 240
accaccacta gatcgccggc aggatccgtg actcgggtcaa gaagctggag ccaactttac 300
caagcactgg tgctgttgat gtttttacag ttttgagctc ataaggtcag ccatgaccat 360
attgtaatct gtgaccaggt agacttgccc actggtccgt ccaactattg tct 413

<210> 13340
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-A2

<400> 13340

aagcgccaca cgccgacgag aaccaaccag gcaaccagat ggtagtcggt tagctaagct 60
cgggatcgga ggagaggtgc cccgcgaccc tgacgatgac gatgcctcgc cgcgcccttc 120
tcttcgccgt ggcgtcctc ggggctacg ccgcccgggt ctacgggttc cacctcgccg 180
gggacgagag cggcctcgtg aggggctgac tcacagcggt ccgagagcgg gccgaggccg 240
aggccgagga cgccgcgcgc ttcgccgtcg cctaccacat caggaaccag cgtgctgctc 300
cggagtccac taggggtgctc aaatcgaagc ggcaggttgt gaccgggacc ctgcatgacc 360
tgatactgga cgcagctgat gctggacaaa agagtctgta cagagcacia gtctgggtga 420
agcc 424

<210> 13341
 <211> 441
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-047-Q1-K1-B4

 <400> 13341

 cggattcccg gtcgaccacg cgtccgtgac ttcggaggct ccgaaactag tttcccgtag 60
 agggagccct taacgaccgg ggaccggtgc catgtacacg tgcgagactg cctctactag 120
 aacacaagga ctactgctgg ctataacaaa cgcctagtac agtggctgca gaccatgcac 180
 ccggtgatga acgaatgcac ctttctccag aagcagcact gtctgtactg ctacttggga 240
 taaaaatggc gacattccgt ctataccttg tatgtcgata gtcaagctat gactatgaac 300
 cttactgaca aagctatgag gctcctaaga gctgatgaac cctatgatga tcttgccctgc 360
 tcgtgtacac aaatgcgctc acttgctgtg tacgacaaga catcttttgg atactgcgcc 420
 ttgaatcatg taccagggat t 441

<210> 13342
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-047-Q1-K1-B8

 <400> 13342

 tcccgcgtcg acccactcgt ccgccacac gtacggccac acatttcatt aaacaaaatg 60
 cctgtatcta actgtgatga gcatcagcga caacctcatc cattcagcca cctagctact 120
 gactaccaga accaatgcct tgcattaaac caactgactg acatgaactc tgctgctcat 180
 atacaacagc aacagctacc accattcagc cagctagctg atatgatcca tgtcgccttc 240
 ttgacacaac aacattatgc tacaatctac ctacacgctg ctccctaactc tcacacccta 300
 taacaactgc tgcagtatct gccattcaac caacttgcta tgacaaacc tacaactttc 360
 taccaacatc cgatcattga cggatcccta attaatatcg tatacaagta atagctcact 420
 aatgaagatt accggaacat gtaag 445

<210> 13343

<211> 420
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-047-Q1-K1-D10

 <400> 13343

 cccacgcgtc cgtaggggttt ctttcgcgtt gctttccagt ttgcggcatc agtcggtggc 60
 gcctgcgatg gagtctctgt tcggccaatc gcagcggagg aggagggcgg tcggcagcgg 120
 cttcgaatcg ctcaagcgtc tgggtcacat ctcacccgct gtgcagtccc acctcaaaca 180
 tgtgtacctc accctatgct ccgcgctggc cttctctgca ctcggcgcggt acctccacat 240
 cctcctcaac gtcggaggcg ccttcacgac cgtgggatgc gtggcctcca tcgccttcct 300
 catctccctg cccgcttcac gggaccagga gaggaaccgc ttggcgctgc tcatgtctgc 360
 cgcgctcctt caaggcgcgt ccgttgggtcc gctcgtcgac cttgttattg acttggattc 420

<210> 13344
 <211> 322
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-047-Q1-K1-D7

 <400> 13344

 ctctgccaaa cgctgtgtag tggacataaa tgttacctgc cgaatttctt gcataagtta 60
 tggctattct tagaactcta ttttgtaaac gggtttgtat tcctaagcga aattaatcta 120
 gagcgtatct gagaaaacta gacatccttt aaggctgatt cgctggatat ggaattggag 180
 ggaatcacag tccatattaa gacaatacac taaaaaggct acaccttaca accgataaat 240
 ggcggacgta ctagacgata caagctaact taccctgca tgcaacatcg taggccagtt 300
 aatatgccac ctaaagtga tc 322

<210> 13345
 <211> 377
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-047-Q1-K1-E1

 <400> 13345

gattccccggg tcgaccagct tcgacaccgt acgaccgtac tgatcctggc gccctgccga 60
 cgcgagacga gcggcgacga attgtcaccg tgctatgagc agttaggtgc acgagctccg 120
 acgaagacaa gactgactgc agcgacgtga ggagctgaag ctgagctcta atcctcgcgt 180
 aggaacgtca ccggctgggc acccaaaagc tctcaagata aggtggtgcg caccttgatc 240
 gacacgtgat acagagatct cgacagaagca gaagtcggcg ttgcgggagg cgtacaagat 300
 gaagaacctg ctacccccctc gacctgcgcc ctaagaagac ccgtgccatt cgccggcgtc 360
 tgaccaagca ccagatc 377

<210> 13346
 <211> 270
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-E11

<400> 13346
 taaaagcaaa ataattaaag ctataaaaaa ataaaggcgg gcccttctaa aggatccatg 60
 cttacatcat cttgcatgcg atgacataac tacttatata acgcaaccta aattcaatta 120
 attggccgtg gttttaaaac gtagttactg aaaaatccct gctactacca aactttgtgg 180
 cttgggtggt aattctgctt tcgccagctt tcctattacc tacttggccc catctgactg 240
 tccttcatat acaattcgca agcctgaatg 270

<210> 13347
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-E3

<400> 13347
 cggaattccc gggtcgaccc acgcgttcgc gggagcgctt atgccttctt actggtacaa 60
 ccgcttttgg catttcattt gcaaggggtg ggaaacattg gtgctttctt gagacaacaa 120
 catttggtgg cattttaccc acaagttgtg ggaaacatta atggcttttt gcaacagcaa 180
 caattggtac cattctaccc acagaatgtg gcaacaatt gtgccttctt acaacaacaa 240
 caattgctgc catttagcca acatgctttg acgaatccta ccaccttatt gcaaccgccc 300

accattggtg gtgccatctt ctagattttt tatgatttat actgtaataa taaagttctc 360
atgctgatat gtgcgacctc tcagtaataa agtattagag atctatatatt t 411

<210> 13348
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-E7

<400> 13348

ttcacggttc cgataacgct tagccgtatg cgcagatgac catcctgacg acgggtagga 60
cccgtctgaa cttccaatga tcagctacgt gctggtcagc gacttcgtag gtgtacacct 120
gccacgagca ccgatgctgg aggcagtgcc tggcgcagtt tatgagggga tctgcttcag 180
gaacttcagc ttcagaggga taaggcggca tcaggacagc aggtggcatt gcgagtatgc 240
gtatggagag gcgcatgacg ttgtccctgc accgagtga gagctcacga gagatggatc 300
ctcctactgg tgtggacttc tttgaccatc tactctatct agtagtaata catactacag 360
cgcccacaaa ttttgtgagt ggatgatata tgatctttag attatacaga caaactcaat 420

<210> 13349
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-E9

<400> 13349

cggaattccg ggctacgacc cacgcgtgcg caatccttca agcgcaagct gcctccttct 60
cgtcgtccgg tcgtgagaag ggagggcggc ccatggcaag gctatcgacg ctggctccgc 120
gaataaggca acgtcgagga gctccaaagc cggactccag ttccccgcct gcaggattgc 180
taggtccctc aaggcgagca agtactctaa gcgcgtcagc gccggcgccc ccgtgtacct 240
cgccgccatc ctctagtacc tcgcggtga cgttctcgaa cttgccggaa acgccgagag 300
ggacaacaag aagacccgca ttgtgccgag ccacatgcag cttgctgtgc tcaacgacga 360
ggagctgacc aaactgatga gtaggtgcca ccatcgcgag cagaggcggt atgcctaaca 420
tccatcagca tctgtgccc aaga 444

<210> 13350
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-047-Q1-K1-F4

 <400> 13350

 tccccggctcg acccacgcgg tccggcctta acaatggttg gcatggtcag tttatccatt 60
 gacctgattg accaatcgag gtgaggcgaa ataaacaaat cgtataagat acaatacgaa 120
 attacaaata atcataaagc aacaacgaat ttgcgtaatg cttcatcgat cctatctgcg 180
 tatatcaata caaaccatta taacagcgat accaaacgtc attaaatacc ttcaactgat 240
 ccagctagct attattaaca tctatcaact tcttatacca ttaactcctg acatacaacc 300
 gatttgctgt agccctcggt tacattaacg agcaacttct tcaacatata caccttctaa 360
 aatctcttat taaactagtc atagtatacc atagcatcta cctacatcct cgacatctta 420
 tttcatctaa t 431

<210> 13351
 <211> 86
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-047-Q1-K1-G10

 <400> 13351

 accggttcgg aattcccggc tcgaccacg cgttcgaact agcatcattg ggggcacaat 60
 agtgtacgaa caacggcacc caaaat 86

<210> 13352
 <211> 304
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-047-Q1-K1-G3

 <400> 13352

 tgtacgcact agagtaacac agatgtataa caggtagaaa gaccaaccat acaagcgagt 60
 atgctccctt aagatcattg accacatcgt acgggatggg agtgacggtc tcgatggtag 120

tccccctcaac catgaagaca ggcttggggc ccaacggctg cctcttggtg ctgatgacct 180
 cgccgcgctc ctttgtatgc gccttcagct ggtcattgat ctttaagggag gattctaggt 240
 atgctgcttg ctgacacctac ctggtcacac tagagctaca cagatgtaga acaggtagaa 300
 agac 304

<210> 13353
 <211> 426
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-048-Q1-K1-A10

<400> 13353
 ttaccatggt gctgcttcta tccaagtaca gaatgaagag ccttccagtt gtaggagggg 60
 gaggagataa gattgagaac attatcacac aatcctctgt cgtacacatg cttgcagagt 120
 gtgttgggct ctcttggttt gagaactggg gaactaagaa actctctgaa ctggggcttc 180
 ctgtcatgaa accatcgaaa cttgtcaagg gactcttaat gatccgttgt tggctctcat 240
 tggaaatcta agtagaacat ttcactttca gtttttcatt tctaattaac ctataacaga 300
 ctcaagttca agttatcaat acctaaagaa agatcaattt catcaaagcc atgctaacac 360
 gtcacttggg cctactctnt tcaaggtaag cgaagatcag ccagttctga aagctttcca 420
 actgat 426

<210> 13354
 <211> 454
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-A11

<400> 13354
 aattccgggg gggacccacg cgcccgccca cgcgtccggg cggtggtggc tgtgatggca 60
 gcagcagcag cagccccaag caggcagtca accctgggga agaggaggtg gtggaatctg 120
 gtcctgtgac agcgacgccc aacgctgctt gtggattcca agaaagcagc tatggcgtgg 180
 tggaggtgga gctcgtcttg cctgacagcc ccttcgcgcc cccaccaag gaggaggcct 240
 catacgctga tgctgtcact gctgcagccg ctcggaacgg tagcaccagc agcagcagcc 300

ctcgcctatgt ggcccttttc gcacccgcgt cttccaccac cctcgagctg cccccctaca 360
gctcctcctg cttctttcat gtgccaggt tttctcctgg gcatgaagcc attgggctgt 420
gatgtgaggt gcacagaaca aataatgggg aggg 454

<210> 13355
<211> 485
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-A8

<400> 13355

ccggtcctga attcccgggt cgagccacgc gtccgggac ctcctgggaat gtgataattg 60
acttctactg gggatatggag ctgtaccctc agatgggcga gtactttgat atcaaagtat 120
tcaccaactg tcgtttcagt atgatgtcct gcgctgttct tgccgtaacc tattgcataa 180
agcagtatga aatgaatggc agagttgctg attctatgct tgagaatact gcacttatgt 240
tgatctatat cactaagttc ttttgttggg aatctgcata ttggtgtact atggacattg 300
ctcatgatag acctggtttc tatactctgct ggagatcctt ggtatgggtc ccatccatat 360
atacttcctt tgaaatgtac ctggtaaacc cccttttgaa tttggcccc aagttaccac 420
tttaaactct cttacctgga ttgtggtcca tacccttaa ctatgatggt aaccttaaac 480
cccaa 485

<210> 13356
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-A9

<400> 13356

cccacgcgtc cgtagcaaca tacatagtga agtacactag caacatctta gcaggagtgg 60
gagccaagat ttttgccctc cttgccctcc ttgctctttc agcaagcgct gctacctga 120
cttttattcc acaatgtca caacaatacc tctctccggt gacagccgcg ggatttcaat 180
accaactat acaatcctac atggtacaag aggccatcca agcaagcatc ttacgggtcat 240
tagcattaac cctccaacaa ccatatgctc tattgcaaca gccatcctta gtgcatctgt 300

atctccaaag aatcgcggca caacaactac aacaacagtt gctaccaaca atcaatcaag 360
tagttgcagc gaaccttgct gctaacctcc agcaccacca gt 402

<210> 13357
<211> 446
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-048-Q1-K1-B3

<400> 13357

ggaattcccg ggtcgactca cgcgtccggg agggcgcagc ggcgacgagc tcagcgatac 60
agcggcaccg gagagctagc cgcggcctcc aggctcgcgg ggatctgaac tagtgccgct 120
gccaatcgc gccgacgact gaggcgcca ctctcatat cccatttcca tcaactcgttt 180
ctccatttcc caccttcta aacgccactt aaaagagaaa ggagagcatc gcagtggcac 240
acgcgcaatg gaaggctcgc cggtgacgcg cctnccggag gctaactccc tccccgacgg 300
cttcgttcct gactctgaga gccctggcac ggacgcgacg ttcccttct cgcgccccat 360
cgttgatgat gcgctcaact ccgatatccc cggcgcgacc aaccangcn gcgaggaaac 420
cctaaacgat ccnccctcc ctgcgt 446

<210> 13358
<211> 467
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-B8

<400> 13358

accggtcctg aattcccggg tcgagccacg cgtccgcca cgcgtccgga gaccaacaag 60
catcatataa agtggaatcc agtagcaaca acagagcaag aatggcgacc aagatatgtt 120
ccctccttat gtccttgct ctttctgcat gtgttgctaa cgcgacaatt ttctctcaat 180
gctcacaagc tcctatagct tcccttcttc cccatacct tccatcaatg atagcttcag 240
tatgtgaaaa ccagctctt cagccctata ggctccaaca agcaatcgca gcaagcaaca 300
tacctttatc acccttggtg ttccaacaat cgccagccct atctttggtg cagtcattgg 360

tacaaaccat caaggcacia gaacttgcac aactcgtgct accttgtatc aaccaataa 420
 ctttgcaaaa cttttcttcc taatcttaac aaccaccatt tctttca 467

<210> 13359
 <211> 190
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-C11

<400> 13359

aaaaaaaaa aaaaaaaaaa aaaaaataa aaaaaaaaaa aaaaaaaaaa aaaaaagagt 60
 aaaaataaaa acaagggctg gccgttcatt aggttccaag cttacttccc cttacttgcc 120
 acgtcttaac ttttctatac cttcacctac attaaattaa ctgtcactta gttcttacia 180
 cgatcacatt 190

<210> 13360
 <211> 267
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-C5

<400> 13360

attcccgggt cgagccacgc gtccagcatg tgtaatgtat aactgtaaat attggcttga 60
 tttgaacaaa cttgtttttt ttgcgaaaga aaaaaaaaaa aaaatagaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaacia aaaaaaaat 180
 aaaaaaaaaa aaaaaaaaaa aaaaagtcaa ccattaaaaa tattcaaaat ttacatacca 240
 ataaattcaa cgtaaaaatt ttttaaa 267

<210> 13361
 <211> 329
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-C7

<400> 13361

accggacttg aattcccggg tcgagccacg cgtccggcca cgcgtccagt tggcttctcc 60

tctatcttcg gttcgactac gggttcgtga ggttgcggcg gggttcacac tcgtggatga 120
 ccggatctac atgtcacctt ctgatgttga ttaccgctga ttattctact gcctcatctg 180
 agccacggac taccactccc tacacaacgc cttcatcacc tacagagatg tcctcgagtc 240
 caaaatcatt cctgatcggt agacgcatag gtacctctgc ttcggctctc acaacttttc 300
 cacagaagaa gccatgcgta accccatcg 329

<210> 13362
 <211> 60
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-C9

<400> 13362

aaaaaaaaa aaaaaaaaaa aaaaaaata aaaaaaaaaa aaaaaaaaaa aaaaaagaag 60

<210> 13363
 <211> 277
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-D8

<400> 13363

attttatgcc atgattcatt ggtaagatcc acggtatctt acaccggagc agagcaagac 60
 atggagaagt cctaggctac cgagccacgg cggcgcgccg gcctgacact tacaggtggg 120
 cccgcaacgg ttgccccac cgtgcccaca cactggggga agttcacccg gggacggagc 180
 acgccatgcc acgcagcagc acagctacgc tgctgtcagc ctctctctcc ggcagcccgt 240
 tagatctgca gctcgggcgg agccttcacg ggggcta 277

<210> 13364
 <211> 209
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-E1

<400> 13364

cacgcgtgcg taccagtgca agtctattac tgatgattgg ttttcttctt tatcaaagt 60

gttcatgatg attgagttgc tgaacttgaa atactgcaac aagatcactt atactgattt 120
 gggtcaccta tactccctgt atgatctcac aaacctttta ctgacatgct tgttcctctt 180
 aacaagcatt gagatctcct caatttcaa 209

<210> 13365
 <211> 187
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-E3

<400> 13365

cttagcagga agcgctgggc acctcagttt tgtgtagaca aaatctaggc atcgataaat 60
 gatgggggac tatgcatggg gttttggcag cactgttcag taccttgcct tctaaatctg 120
 gtttttgggtg tgtgtgtgta agctaataaa tgctgaggca ggattgtagg aacaccattg 180
 atcaaaa 187

<210> 13366
 <211> 197
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-E4

<400> 13366

taccggtgca actctattac tgatgatggg ttggcagctt tagcaaattg gtgcaagagg 60
 attgagtga tgaacttgtg ttactgcaac aagatcactg atactggttt tgggtcacct 120
 aagctccctt gaagaaccta caaaccttta acttaagtgc ttgggtccccg taacaagcat 180
 tgggaatctc ttaattg 197

<210> 13367
 <211> 473
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-F2

<400> 13367

cctctccgga attccgggtc gacgcaggcg tccgccacg cgtccgccca cgcgtccgcc 60

cacgcgtccg aggggtttccg cgtcggctag tttggacgca tggctgctgc aggagagtag 120
 agaccacagc gcgcgaggcg aggagaataa gctatgggcg cgccgaagca gaaatggacg 180
 tcggaagagg aggatgcgct ccgcgccggc gtgcgcaagc acggcgcccg caaatggcgg 240
 accatccaga aggaccccg gttcagcccg gtcctctact accgctccaa catcgacctc 300
 aaggacaaat ggaagaattt aagtttcagt gcaagtggac tgggaatcaa ataactgtcg 360
 gttccaaaga taactggacc cttatcttcc ccatcattta actcgcaacc tttggttttt 420
 ccaacgggaa acaaatttac tggagcttca ctggctgcat atgctgagaa aaa 473

<210> 13368

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-F5

<400> 13368

agctgtatcc ccgagattcc ttaaccagcg cgaaccaata tactgttgcg tgttctcctg 60
 caagtgagat gttctgcacc tatgtttgta atgttgatt tctgggtttt taagctatcc 120
 aacttgga tacaaccggt gaggaagcag caacaatagg tagttctact tctgagtga 180
 gaaaaacaac ttgcggctga gttaatgaag cttagtagct accaccgttg tatgacagtt 240
 gctcagaaat gttatcttca ttaatggcta atataaccgt tagttccttg tga 293

<210> 13369

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-F6

<400> 13369

ctgaattccc gggtcgagcc acgcgtcccg cagagttttg aagctttgaa ccccatagcc 60
 gttgctgttg tgatagacct catccagagt gggaatggga aggtgggttat tgatgcattc 120
 cgcctcatta atcctcagac catgatgctt ggccaggagc cacgtcagac aacatcaa 180
 gttgggcacc taaataagcc atctattcag gctcttatcc atgggctgaa tagacactac 240
 tactcaattg caatcaatta ccggaaaaat gaacttgagg agaaaatgct gttgaacttg 300

cacaaaaaga aatggaccga ttggctaatt ttgaaaaagg ttgaccctca ctcgaaaacc 360
aacgagcaaa ctgtccatga aatg 384

<210> 13370
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-F7

<400> 13370

accggtcctg aattccccggg tcgagccacg cgtccgatct gcgtctttcc atccagatgg 60
tcttatcctt ggaacaggaa ctactgatgc tgttggttaag atttgggacg tgaaggctca 120
gtcaaatgtc gcaaagtttg agggtcattgt cggaccagtc actgctatgt ctttctctga 180
aaatgggttac ttcctagcga ctgctgctca tgatgggtgtt aagctttggg atcttcgtaa 240
attaagaaat tttaggactt tctctcccta tgatttgac acgccaacca atactgtgaa 300
atgtgatttt agtggaaaact atcttgccat tgggtggttca gatataaggg tctaccaagt 360
acctaattgtt aagg 374

<210> 13371
<211> 464
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-F8

<400> 13371

ccggtcttga attccccggg cgagccacgc gtccgcccac gcgtccgccc acgcgtccgt 60
ttttattaac cacacctctg gcaaggagta caagctgagg ccaattggtg atgctggccc 120
tgtaattgag gcgggaggga tctttgccta cgcccgaag acaggaatga ttgcgtcgaa 180
agctgctgca tgagggaaaag atcagcttat gcagccgagc ctctgcggag atgaagaagt 240
aagctggagt taggactaag agttactgca cctacttgat gtcgacggtg tctcaaaata 300
aattgggggc ctaacaaatt attatgaatc aattaatttg ggctttggca aaaaatcggt 360
ttttttggta actagacctg gaccaatgga cctctggctt gttacggtcc taaccggttg 420
aattacctgt ctggtggcca aaaaaaaaaa taattttaat agat 464

<210> 13372
 <211> 248
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-048-Q1-K1-G1

 <400> 13372

 gaattcccg gtcgacgcc cgcgtccgc gacgcgtggg gtgcggtggc aatcttgaca 60
 gcagcacaat acctaccatc aatgtgcggc tggtagcact catactacca aaataatcca 120
 tgcagcagca atgacattag tgggtgtttgc aattgaagaa ttgtgtctac ctagccgtta 180
 tactcctata acggtgttaa gcaataaagt accatacatt aaaaaaaaaa aaaacaataa 240
 taataatt 248

<210> 13373
 <211> 451
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-048-Q1-K1-G4

 <400> 13373

 tcctgaattc ccgggtcgac gccagcgcgt ccgcctagcg aagcgcacta gcaacgacct 60
 aacatcaatg gttccaaga cattatccct cttgcgctt ggtgcccttt ttgtgagtgc 120
 aacaaatgcg ttcattattc cacaatgctc acttgctccg agtgccatta ttccacagtt 180
 cctccctcca gttacttcaa tgggcttcga acaccagct atacaagcct atagtctaca 240
 acatgcgctt gaagctagcg tcttagaaca acctattgcc caattacaac aacaatcctt 300
 ggcatctcta accttacaac ccatcgaacc gcaccaacac caaccactaa cccactaacc 360
 cttgttgaac ctaatggctt actgccacca ccacttgttt gattccaacc aatttccttt 420
 gccaacctaa cttgcaacca accaccacca c 451

<210> 13374
 <211> 350
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-048-Q1-K1-G7

<400> 13374

accggtcctg aattcccggg tcgagccacg cgtccgacaa tagaaaccat cgcaacgcaa 60

cagcaacaac aattcctacc agcactgagc cacctagcca gggatgaacc tgccgcctac 120

ttgcaacagc agttgcttgc atcaaaccga cttgctctgg caaacgtagt tgcaaaccag 180

ccacaacaac agctgcaaca gtttctgcca gcgctcagtc aactagccat ggtgaaccct 240

gccgcctacc tacaacagca acaactgctt tcattctagcc cgctcgtgtg ggccaatgca 300

cctacatacc tgcaacaaca attgttgcaa cagattgtac cagctctgac 350

<210> 13375

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-H1

<400> 13375

tcctgaattc ccgggtccac ccacgcgtcc ggaagaagta cagcaaggac atcagcaagg 60

atttccgtgc tcttggaag ctgaggagg aagccgagcg cgccaagaga gccctcagca 120

accagcacca ggtccgtgtt gagatcgagt ccctctttga cgggaccgat ttctcggagc 180

cgctgacccg tgccaggttt gaggagctga acaacgacct cttccgcaag accatgggcc 240

ctgtcaagaa ggccatggag gatgctggcc ttgagaagag ccagatccac gagatcgtcc 300

tggttggtgg aagcaccagg attcccaagg tccagcagct cctgcgggac tacttc 356

<210> 13376

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-H11

<400> 13376

ttcagatttg atgaagaaag catggcggtc accagggtat caattatata gacagggtgc 60

ggacagtaaa attccatctc tcagatctct caatgagata aggtctcctg aaggaaggcc 120

tccctcttcc atgttatcag cctgcagcaa cgacttgta gcagcaggat cctatgggtga 180

gtcatccgat ggttggtcaa tgcgcacatt ttctgaaatg gtctcaacat cccaaagaga 240

gaggtggtca cttgacagtg agctcttggg atccatttct agtaaaatga caagatcaag 300
 tgcttcgagt tctactacac gccccctga ccaagacgtg tgcaagctgt gtttaaagct 360
 gctaaaggag agatcgacat ggaacgcgca ggagctggct gttgttgctg ttttgttgctg 420
 tggacat 427

<210> 13377
 <211> 212
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-048-Q1-K1-H2

<400> 13377

attccccgggt cgacccacgc ttcagacgtt gccttctcgt acacctactc tatgcttctc 60
 atagaaatcc ancacactat gaaggcacgt tcattatata actttacgat gaacatgacc 120
 aactactact gcatcaacac atctaccatc ttctacatat ctctcctatt catcacctac 180
 actgcctatt tcaacacctt tccagtgaac tt 212

<210> 13378
 <211> 366
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-A5

<400> 13378

ggaattcccg gctcgagcca cgcgtccgag caggtcaggc aagcggagcc ggacttccgg 60
 taccaggcga ccttaggctg ggcggtgcaa tccatcctgc agcagcagcc gcaaagcgct 120
 cagatcgccg tgctgatcgc ggcgcatatc gggcagcagc tgactgcgat gtacgacctg 180
 cagcagctga ctttatgccc ctaccctgct gccggccata tactccactg tagaaactat 240
 ttgctgtact ataacgcctg gctagcttgc tagtttaatc atttagcggc gatgatcgag 300
 gaataatgta gcatgcatca cgcattgggtg gcagtgtcag ctgaagcaaa gtccttaatg 360
 aacaat 366

<210> 13379
 <211> 379

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-049-Q1-K1-B1

 <400> 13379

 aagctacaac agagactgta gatgcattga gaactggagc tgcagctatg aaagcaatgc 60
 acaaagcaac agacatcgat gatgtagaca agaccatgga tgaaattaat gaacagactg 120
 aaaatatgaa acaaattcag gatgctttgt caggctctct cggagcttct gctgatttct 180
 atgaggatga actggaagcc gaacttgaag aactggaggg agcagagttg gaatctcagc 240
 ttctggagcc tgttgcagct tctacggtgc atccagtga tgccccagcc aacaagcaac 300
 cagcgcgcac tgctccacag aaagctacag ctgaagatga tgagcttgct gcaactgcang 360
 ctgaaatggc attgtgatc 379

<210> 13380
 <211> 471
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-049-Q1-K1-B9

 <400> 13380

 ggaattcccg ggtcgaccca cgccgtccgt ggttgaagga tccagggcac aaggcgattg 60
 ctaccttgcc gatattgctg gttgggagta agggtgaccg gtctaacagg cgtccagtga 120
 gctatgagga aggcgagcag ttcgcaaagg aacatggtct tatcttcattg gaggcctctg 180
 caaagaccgc gcagaatgtc gaggaggcat ttgttaagac tgctggagca atctacaaga 240
 aaatccaaga tggcgttttc gatgtatcta atgagtctta tgggatcaaa gttggatatg 300
 tagtccctgg ccaatctgga ggtgctggta gctcttctca aggtggtggc tgctgcagct 360
 aatctgctaa cgcccttatg tacaaaggca tatctgcggt gtagctgcgt tatctctatg 420
 ttgctgagcg taaaatagtt actgctccag ggtgctttgn tatttgatgc a 471

<210> 13381
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-C1

<400> 13381

ggattccccg gtcgactcac gcgtccgaag ctacaacaga ggctgtagat gcattgagaa 60
ctggatctgc tgctatgaaa gcaatgcaca aagcaacaga catcgatgat gtagacaaga 120
ccatggatga aattaatgaa cagactgaaa atatgaaaca aattcaggat gctgtgtcag 180
gtcatctcgg agcttctgat gatttctatt acgatgaact ggaagccgaa cttgctagaa 240
ctgcagggag cagagctgga atctcagcta ctggagcctg atgcaacttc tacggtacat 300
ccagtgcattg ctgcagtcta caagcaacca tgcgcgcact gcttcacaga aagctacaga 360
tgtagatgat cagcttgctg cactgcaagc tgaaatggca tagtgatc 408

<210> 13382

<211> 445

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-049-Q1-K1-C10

<400> 13382

ggaattcccc ggtagacacc acgcgtncgg ccgactcgta gcggccacgc gtctcgaatt 60
tacaatattc cctcaccctg cacggagctg tggcaacgtg taccgcggct ggcgacggc 120
ctgacgacga tgataggcgc cggcgggctg gaccctacg cggagtacct gaagcaaata 180
gcatggcacc ccgttggccg ctgagcgcta ctacgacctg agtggccaga cgagcgccat 240
gtaccagccg gtccggcaac agtgctgcca tcaccagatg aagatgatgg acgtgcaata 300
cgtattgcat caactgcaga tgatgatgca gctcgagcgt gccgctgcct tcagaaacat 360
gctgaaccag ccagctctaa tgcagcagcc ccagcagctg gcggcagatc acggtctcaa 420
ccgcatggcc atgatgatgg cccat 445

<210> 13383

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-C11

<400> 13383

ggaattcccc ggtcgaccca cgccgtccgc tgatcatcgg ttcttggcca ccgaaattat 60

tgtggctggc caatacttgg attaaccggt taaactagag caggctgaag gccacctggc 120

acacagtcaa tttggtggta tgattatgcc atcgcaacga aagaaagagc aagaagagtc 180

tccactggct aatgtaacac gagatagctc caaaatcaca gctgaacagg ttcacggcct 240

catgtcacag gtcatagaag acatcctttt caactctgtt caccctcaa gcaaggcaag 300

cacaagtgtc ccaccagatt catccgggtc tgagcctatg gttgaagcct gagttccagc 360

ggaaggggac aatggatatt tgtgttatgt tatctgattc agaaggtgca aaacaagtta 420

tcttttgagt acagaatcat catgtaatta tga 453

<210> 13384

<211> 157

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-049-Q1-K1-C9

<400> 13384

ccggaattcc cgggtcgacc caccgntcc ggctctgtca gctgccaacg cctttgcaat 60

gcaaatgccc tggccctgcc cggggtgga aggcttgatc cgggcttgcc cccggcttaa 120

aacaataatg gccccgcgcg gcttgaacct taacctg 157

<210> 13385

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-D12

<400> 13385

ggaattcccc ggtcgaccca cccgtccgcc aacctgggccc cgataggagt tccgtattaa 60

tggtggaggc agccaaaagc agcctgggaa tgtaagtct aattaaccat ggcaccactc 120

tctgttattc cattagccaa attgggagcg agaagtccaa tcagttggag atggacagtg 180

tgatcccttt acctgagggt tatatttact ttcgcattca cggttcatat gaaggacaca 240

ttctcatatt tggatacgca tttagtgaag acgcatgctt cgcacttgag atcaagacta 300

tgaagattga gagagtctgt cggaagtggc gtggtttctg tccttatttt gtgttcctgc 360
catccatgtc acaaaggagg atataatgtg gactgaattc acatccaggt ttggggcttc 420
ttccaatcca ttctgctggg gtggagttga gctaggtga 459

<210> 13386
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-E1

<400> 13386

tcactcgtat gctctatatg taattcacat catatatcag gatgatagac tatctacatg 60
aaccgtactc cacaatcttt cagaactgaa catctattca tatggtcact tgaaacccaa 120
aacagcccta tatatcgtaa tgtactgact acttctctat taatgtatat atctgcacac 180
tgtactaaac gagccgtgcc gctgccattg ccgcaaacga tgtacagaca ttagctgcta 240
acttgccaag ctatgattac gaacatgaga tatccaacat acgtcgataa caggatgacg 300
tgcacacat actcacataa tcctcaggta gacgactttg tgttatcgaa gcgatccagc 360
tggttctaaa 370

<210> 13387
<211> 263
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-E6

<400> 13387

ggctaaaact aaaggagaaa ttttgaaaaa aaataaaaaa ttaaaaaaaa agtttaaaaa 60
aaaaatttaa aaaaacggga aaaaattttt aaaaaaaca agaaaaaaa aacatttttt 120
tggaataagg gggaaattta agtgctttta aaatggccc cgaaaaatga aaaaaatgga 180
cctaaaaacc tttttgcaaa aaaccaaaaa ttttttagga aaattttcaa aaggggcaaa 240
atgttaaatt gaaaagggga taa 263

<210> 13388
<211> 252

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-049-Q1-K1-E9

 <400> 13388

 tcgcgacgcg ttcggattct tcctgggcaa gtttttggtg ccctgggtcat tgagcacttt 60
 ggttgatttc agtttaggat ttgaatgatg ctgggttaaa caatgacttg gctggcatta 120
 ggtattaact aatgctaatt aacctgccaa aaaaaaaaaa ttcaagaaat taaacggctt 180
 • tacataaaat taccacaaac aaaaggacaa agaaaaaaaa aggggcggcc gtttttagagg 240
 atccaagttt ac 252

<210> 13389
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-049-Q1-K1-F6

 <400> 13389

 tagcaacata gaaagcacia tagtgtacca acaatggcag ccaaaatatt ttgcctcctt 60
 atgtcctctg gtctttctgc aagtgtgct accgcgacca ttttcccgca atgtcacaa 120
 gtcctatag cttcccttct tccccgtac ctctcaccag cggtgtcttc ggtatgtgaa 180
 aaccaattc ttcaacccta taggatccaa caggcaatcg cagctggcat cttaccttta 240
 tcacccttgt tcctccaaca atcatcagcc ctattacagc agttaccttt ggtgcattta 300
 ttggcacaaa acatcagggc acaacaacta caacaacttg tgctagcaaa ccttgctgcc 360
 tactctcagc aacagcagtt tcttccattc aaccaactag ctgcatngaa ctctgctgct 420
 tatttgcaac aac 433

<210> 13390
 <211> 93
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-049-Q1-K1-F9

 <400> 13390

ttgttttttt tttttttttt tgggtttttat tttttttttt ttttttttta ttttgggttt 60
gtttttttgc caaaattcca aagggccctt ttt 93

<210> 13391
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-G12

<400> 13391

tagcaacata gaaagcacia tagtgtacca acaatggcag ctaaaatatt ttgcctccgt 60
atgtccttg gtctttctgc aagtgtgct acggcgacca ttttcccaca atgtcacaa 120
gtcctatag ctcccttct tccccgtac ctctaccaa cgggtgtctt ggtatgtgaa 180
aacccaattc ttcaacccta caggatcaa caggcaatcg cagctggcat cttaccttta 240
tcacccttgt tctccaaca atcatcagcc ctattacagc agttaccttt ggtgcattta 300
ttggcacaaa acatcagggc acaacaacta caacaacttg tgctagcaaa ccttgctgcc 360
tactctcagc aacagcagtt tcttccattc aaccaactag ctgcattgaa ctctgcttct 420
tatttgcaac aac 433

<210> 13392
<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-049-Q1-K1-G3

<400> 13392

tttgcttggt agattgaaag ggtttccaca ccttgaaggt tatgctgaac catacatgag 60
gcaactgtca gtcagtgatg ttgtaactgg tctctacag acattcaatg gcatagagaa 120
ggtcggccat atagttcatg tcttaaagac aactggccac aacggtttcc ctgtggttga 180
tgagccacca ttttcagata ccctacatt gtatggtcta attcttcgag accacctgct 240
tgttctattg aggaagaagg atttcatccg tagttgcaca gcgtctacac tgaatgcttt 300
aaaccatttc tcacatgctg agtttgctaa acgtggatca ggaaaacatg acaggattga 360
ggacattgaa ttatgtccag aagaactgga aatgtttgta gacttgcac cattcacaaa 420

cacatctnca tatac

435

<210> 13393

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-H4

<400> 13393

aattccccggg atcgactcca cgcgtccgac aaacatatag tctgctgagt ctttcatatg 60
gaacattgat ggggaatcat tatcgaggaa tgaattagat tttcaaagga gaatggattc 120
agcaagggaa cacatgttgg gggtatcagc tgactcagaa taccaggata atcaagccaa 180
tcttgatgtc caagatcgta gatcaciaag tcttgagact aacagaaatt ctgatgtcag 240
cttatctttg aaagaccacg tccaagggtc agggcacgat atgagaaggg acagtgatgt 300
gactgtgagt ggtaaacaag ttgagcaagt gcaatctatt tctgatttag agaagaaagg 360
aactgcgga ctcctcaatg aagatgactt gaacaaaaaa ttccaggagt acccgtttct 420
gtttgcccgt gctggtgatc tgacta 446

<210> 13394

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-A4

<400> 13394

tccggaattc ccgggtcgac cactcgtcc ggggactcgt accttgcaac cactctttg 60
cgatccgcac tatctccagc ctatcgcgga tggctaccaa gatctcatcg ctccgtacac 120
taactgacct tctaaccagc tcagctcatg cgatcatgat tccacagacc tcaattactc 180
ctaaagccag gattgcacag atcctgacac cacttacaga aatgggctct taacatgcag 240
acttgctagc actcctccta ctactagcac ttgcatgct cgccctacaa ctaccattg 300
tcaaacacag tcatctatgc ttgacacact gaccatacca ccaatgcaac acaacatcaa 360
ccacagccac tgcattcaag actgatccac ctacacgca 399

<210> 13395
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-A7

<400> 13395

tgaggacttg gatgataagg aggtggtgag tccagaaatt aaggacgaga ttgaaagcga 60
agatgtcaaa cccgcagatt cttcagcaat ttccctctct agcaagaagg agcctcttgt 120
tcaggctact ttgtctagca tgtttataag ggcagaagaa aaaaagagat ctacaaggag 180
tcctaaaggg tcccttgcaa ccaaaggtgc tgctgctaag aagcagcgag caagtccaat 240
ggcaaaacag ccagcaggga tcaagaaggt tagcggaact cggggaaaga aaaaaccaaa 300
ggtgggagaa gatgaaatcg aagagctctc aagtctctcc caggataacg acgcagatga 360
tgatagtga caggactggg ccgaataatg cgttggtaca tacggcagat aggttgggga 420
agcatatg 428

<210> 13396
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-B11

<400> 13396

tgagtctcca atgtgtggct tcagtgtact ggctgttaag gtcttccagc aatatggcgg 60
ccctgtctgt ggtagagaca ttcttgggga tcttaagctc aaagagtgtg ttaaagccca 120
cactaactgg cctacatttc cacaaatatt tatcaaagga gagtttggtg gggggtctga 180
catcatatta agcttgcacc agaagggtga gcttaaggat cttcttgggg atattgcaca 240
aagagacgaa caaaaagtgc atgctcacga ttcatgaagc aatcaacagt aggttctttt 300
actatgcgct atctactctg ccactaaaat gttctatctc ggagtcttta ggcgacagcg 360
tacgtgacat tgtgaactgt ccctacgcat tggacatgga tgaccggatg tg 412

<210> 13397
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-C2

<400> 13397

tcccggctcg acccactcgt ccgtgaaagt caagcgattt tgctaaaaaa aaaaaaaaaa 60
aaaaaaaaaa aaaaaaaaaag gaaagaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaatcaaca 180
taaaaaaaaa aaaactaaaa caaaaaaaaa aaaaaaaca caaaaaatcg actcaaaaat 240
aataaaaaaa aatttaacct tccaaaaaaa aaaataaaac taaaaactgc tataactaaa 300
atgacttaac caacatatac caatcacata aatactgtac aacttt 346

<210> 13398

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-C8

<400> 13398

agtcactgat tcttgctccc atgagtatat cttgcctggt gctgaattga cgtgtggatt 60
ttgagctcgt cagcatagtt caccatgatg ataaaaaaaa gagaaagaag tttggagtag 120
ttttacatgt ggaaacaaaa ctgcttgtaa gaagagagaa tgtgcagccc cagagtgtga 180
gcaattttac atgcttgagt gtacaggggt ttggagtagt cttggacttg cttattttga 240
ggcatgtatt gcagtcatag gttacttctg ctcaaaaaaa aatacaaaac atgaaagaaa 300
aaaaaaatat aaacaaacat g 321

<210> 13399

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-C9

<400> 13399

ggttcggaat tcccgggtcg agccacgcgt ccgcgctgga acacttgcca aatcggaatt 60
ccttgatata tggtgacctt tatggtatct gcaaagaagc atccaccata tatagggcta 120
ctcttcgtta cgaaggtttt agtgagatta tggtaacctt ttccaaaact gggttctttg 180

atgctgcaaa tcatccactg ctgcaagata ctagtcgtcc aacataaag ggtttccttg 240
atgaactact gaataatata tccacaatta acacggactt agatattgaa gcctctgggtg 300
gatacgatga tgacctgatt gccagactgt tgaagctcgg gtgttgcaaa aataaggaaa 360
tagctgttaa gacagtcaaa accatcaagt tcttgggact acatgaagag actcaaatac 420
ctaaggggtg ttcgagccca tttgatgtg 449

<210> 13400
<211> 269
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-D2

<400> 13400

tgaattatga cctctagttg gctgtgcaac cccagaagat aattggaagg aagatgtaag 60
ccgcacgatc ttggttcaga tcaaaggggtg gggcatataa gatcctgttg tcatgaaatc 120
caagatccat ggaacgctgc tcttcacccc atgtcactat gccagcgctc aaccgtacat 180
acacgaggcc aggtatcac aaggtgttcc gtaatctcag cactttggca tgtgattgta 240
cacttgatca cagaggtgat gcgcgatga 269

<210> 13401
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-D3

<400> 13401

tgactcgtc cgagaagacc agttcccttc tctgatcgt cctgttcctc acagcagcag 60
cgatggcggc cgagccggag aagcaggcgg ccccgcggc acaggagacg gccgtgcaca 120
tcgtgtacgt tgaccgcccc gaggacgccc accctgagga gttccacatc cgcaccctca 180
ccccgtcct cggcagcgaa cagaaggcca gggacgcagt gctctaccac tacaagaacg 240
ccgtcagcgg cttctccgcg aagctcacc cccagcaggt caaggatctc aaggagcaac 300
caggtgttct ccaggttgtg ccgagccaga cttaccagct acatggtcct ggggtctggca 360
ctcaccaggg cagcacacac accttgggccc ttatgtgaag gcgtatgaga atca 414

<210> 13402
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-052-Q1-K1-E3

 <400> 13402

 cggaattccc gggtcgaccc acgcgttcgt ggggagcggg ctactgaag ctggttctcc 60
 ttttgaaggg acctgtggat ggccgtgagg cttcagccag atgcaaattc aattatcaac 120
 gatgaagctc ccgccgtggt gtttgттаат aagttcctgt aagcatatca tttagtcgct 180
 atgcatgaca ctagctgaag cgctatctaa gctctattgg tatgagggtt ggttgccgtg 240
 ttgccgagcc tgtaaacgaa gcaagatttg caaacttggt atattgtggt attgatgata 300
 ctggattact ggctgtgggt tgttcaaaaa acaaccatac tcatttggtg tacctgatcc 360
 ctactttttt gggagaaagg ttcaacgttt tggatcatga taaaat 406

<210> 13403
 <211> 417
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-052-Q1-K1-E8

 <400> 13403

 ccggaattcc cgcgtcgacc cactcgtccg tcgcactcgt cctcatacgc tttgggtttg 60
 gactcctttt tgatcttctt gtgatggtac ccatgatggt gcctattgat gagagccctg 120
 ccttcctatt gtatcaggat tgtgctctgt gcttaatatt cttgaaaata tcgactagac 180
 tgtttatgct ggatcagatg gcacctttgg ttgatgaaag ctggagggtca aagtttgaga 240
 gagttagaga cgatgacttc tcccgtttaa agggctctgt ggtcctccat gaaattataa 300
 tgccgatcgt gaccaagctg cttactgctc tctgtgtccc atacgtcctt gcaaggagca 360
 tcttcccggt actgggttac ccactcatcg tgaactcatc ggtgtaccgt tttgcct 417

<210> 13404
 <211> 255
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-G12

<400> 13404

gcccaactacg aggacgagtg catgatgagg cgcacgcggg ccgcgcacac cgactacatc 60
tacaccacgc agcaccacgg ctgatccaat ataatccgtc ctaggttaca tgcgttgctc 120
tcgtacgtgt gttcgtgtcc gtccgtgctc gtgtcgtgta ctcgtgtgtg tgtgtgtgtg 180
tgtgaaacgc cagcgcgtgc tgcttctgct gcgtcgttat tacctgcgtg tcaaataaat 240
tctttttttt gtccc 255

<210> 13405

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-G2

<400> 13405

tgcataatg acttgggata gatgaatggg tagtaatact tccactatga aatgggggcta 60
ggcattcata tatgacttgg gatagatgga ccaaccattc aatcaagcaa ccaagtgcct 120
tcatggcaac tgggaatggg tgatatgtca ggtagtttt ggctaactta accacggtgt 180
gggttaacaa caccaacatg ctagaggagg aagcggatac agaaacattt tctgaggggc 240
ttcttttctt tgagtcatgt ttttagtttt gattcctgcg cgtggctagc tccttttggt 300
ttttgaatga gatgtgtagt ggtgattatt gcggcgcata ttttagagat cgtgggttctt 360
ccaacataag ctggaaaaag aagtctgtat acggatgaac atgtatacca a 411

<210> 13406

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-G8

<400> 13406

cggaattcgg acggcgggcg tcgaccacg ggtccggccc gtaccccgcc tcccgtttca 60
tctcaaatec ctctcgctc atccccgcca gggcaaagcc gccctatcgt cctgtcgtga 120
gaagcaatgg cgggccgtgg caaggcgatt ggcgtggtg ccgctaagaa ggcaacgtct 180

aggagctcca aggctgggct gcagtttccc gtcggcagga tcgctcggtt cctcaaggcc 240
 ggcaagtacg ccgagcgcgt gggctccggc gccctgtct acctcgcagc tgcctctag 300
 tacctcgccg ctgaggctct ggagcttgct gggaacgcat cgagggataa caagaagacc 360
 cgcacgtgc cgtgtcacat ccagctcgcc gtgcgcaacg acgaggagct gaccaagctg 420
 cttggtggtg ccaccatcgc gag 443

<210> 13407
 <211> 224
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-H12

<400> 13407
 ttcccgggtc gagccacgcg tccgcgtcaa agcatgttgg ctaaattggca gcaattgttg 60
 ttgttgtaag aaggcaacat gctgggacga atcctaccac cttattgcaa ccgcccacca 120
 tcggtggtgc catcttctag atttattatt acagtataaa tcataaagtt ctcatgctga 180
 tatgtgtgac ctctcagtaa taaagtatta gagatctata tttt 224

<210> 13408
 <211> 371
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-052-Q1-K1-H2

<400> 13408
 accggtccgg aattcgagcc acgcgtccgt gcaagcccaa tggggaaaga tctggatggc 60
 aacgagtgca ccgtgggaat gtcagatngc aacgacaggg gtgaaggcat tttgaaaccc 120
 cgtggattcc aaagaagatg gtcattgatt ggaaccttgc tgaaaatgtt caagaataac 180
 cgcctttcca gaagattctt gaacataaac taacaataat tgggtataaa ccgcttctaa 240
 cacggtgcta atctaaccg ttccacatgg aatcggaaag tctcgctggc tcaccacagt 300
 tgtacgtgag atgagtcgaa ctggcaaaact gcaacttgat gtggtatata taaaagtga 360
 gtttcagctc a 371

<210> 13409
<211> 98
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-H4

<400> 13409

gacctacgcg tacgggaact cgttgacctt agtttacatt gtctttatcg tgcttccac 60

aatggtagcg gtcaaataga gtcacctaga ttcaattg 98

<210> 13410
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-B3

<400> 13410

aagaggggaac gaaagcatgg atcatatctg attcttttaa cttcaaaggc ccaaaccatg 60

cggaatgaag taacaaacac actaaacaaa tcccaggaag tggatcatcc cacttccgtg 120

tatgtacata accgatgcct cagtgtacat aactggagc agagccgaca aacgccgcta 180

gatatgttac gcccccaacg attattgagg aatatctcac aaggattatt gcagaacatc 240

tcacatggct cacagggcaa acctggtagg tcttgggctc ttggcaatcc atggcaacgc 300

tgaaactgca caaacgatga ggaacaggtg gtctagtcct ttagacaag aggcttggtg 360

acccat 366

<210> 13411
<211> 167
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-C2

<400> 13411

aattccccggg tcgaccacg cggtcgcgga cgcgtgggtg ctatccagct ttgccgagaa 60

ctacaacaat gggttccgaa aaagaccggg ttacctaaac gacacgtgta ccggtcaaga 120

tctgaagaaa taccacaaca tggatgccat caatgtaagc tactcat 167

<210> 13412
 <211> 527
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-053-Q1-K1-D10

<400> 13412

 tactcgggtct cggaattccc ggggtgcgact ccacgcctgt ccgtgtatat gtcttttacgt 60
 tcatggattc tctagatgct acgaaacaga gggacttctc tcttgaacct agaagtgacg 120
 atnntgaggc nnttcgaact aaagtactga atatcagact acttacgtag gacctnnagt 180
 atgttagtat ggcacattcg tgaagaaggt tcattgggcc tacttagctg tattaactct 240
 acttcggtat agtgttctag agtccaagaa aagggtgcatt gaacttttga tcatggttat 300
 gagattgagc tggactttgt tattgcagca cagtacanaa tgcttgacgt aggttggtat 360
 attctgatgg caactccaca agtaagctga gtgtatgcct tcttaataata atagactttt 420
 ggtgagacca aggttaaatac ttgtgatactg cattgggaca aagagcaagc ttcagaaatg 480
 ttgaatactt ttgacatcat tgttgcaagt gactgcacat ttttcaa 527

<210> 13413
 <211> 416
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-053-Q1-K1-E6

<400> 13413

 tgaggaaatt ggtttcaggc ttgtagtata tcctttatcc ttagttgggg tatcaatgcg 60
 tgcaatgcag gatgctctag ttgcgataaa agacggcggt gtacctccac ctagcgctct 120
 gccatctttt caggagatca aggatacatt gggtttcaac cgctattata aagaagagaa 180
 acaataccaa gtggacaagt gaaggaagca gctgaagtct gatcctgtgg attcagtcgg 240
 atcgtggcca tggcttaatt tccaccggac atgctgggct tccaccggac atgatgcaga 300
 ccaatcgtat ttatgttgag ttgtaatcga acgctgcgta gcgcagtatc ccgaagaaca 360
 tatatatggg gtctttctctt ccgtttctgc tctgctgtgg tttcaataat cccgaa 416

<210> 13414
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-E8

<400> 13414

cccacgcgtc cgcccacgcg tccgtattat tgagaccaac tagcaacata gaaagcacia 60
tagtgtacca acaatggcag ccaaaatatt ttgcttcctt atgctccttg gtctttctgc 120
aagtgttgct accgcaacca ttttcccaca atgctcacia gctcctatag cttcccttct 180
tcccccatat ctctcaccag cgggtgtctt agtgtgtgaa aaccaattg ttcaacccta 240
caggatccaa caggcaatcg caacaggcat cttaccatta tcacccttgt tcctccaaca 300
accgtcagcc ctattacaag agttaccttt ggtccatttg gtggcacata acatcagggc 360
acaacaacta caacaacttg tgctagcaaa ccttgctgca tactctcagc aacatca 417

<210> 13415
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-F2

<400> 13415

tattggttta agttaaggat tccatttgta aaaaagagga ttcccttgaa ctaggtgacg 60
ttgaggcttc gaacaaatac aatatcgaca ctactggact agtatgttgt tggccatcgg 120
aagaggttct tgcctactac tgtattaacc actcggatgt gttcagggtcc aagaaagtgc 180
ttgaacttgg atctggttat ggattggctg gacttggtat tgcagccagt acaaagtctg 240
acgaggttgt tatttctgat ggcaaccac aagtagctga gtgtatcctt cttaatataa 300
tagacttttg gtgagaccaa ggttaaactt ttgatactgc atttgacaa aagagcaagc 360
ttcagaaatg tggaatactt ttgacatcat tgttgcaagt gactgcacat ttt 413

<210> 13416
<211> 430
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-053-Q1-K1-F4

<400> 13416

ccggaattcc cgggtcgacc cagcgntcc gcgtgctnaa tcgtcccaag tcgncgtcgn 60
cgtctcttgc cgtggggctg ctctcggggc ttgcgcagag gacgggaccg acgcctggaa 120
ccaccggatc ggcggcatct ctctcagtct cgtcgccgat ttccctcggg ttcaacccca 180
cctccttctt cccgttctct cagacagcga ggtgggtccc gtgcagcgac cttgccacct 240
cgtcgtcttc ggcacctctt tccctcccc gctcgtggc gccttcggct cccccaaga 300
aggcgttgat tgggtcttct gctggttcta ccggaattgc gacgagcagt ggtgctggtg 360
cagcgatgag caggagcaac tggctgtcga ggtgggtcag ctctgtctcc gatgacgcca 420
agacggcggt 430

<210> 13417

<211> 121

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-H4

<400> 13417

aattccccggg tcgaccacg cgttcgcacc accaatgatg ggttggtggt agaactgt 60
tgagtttttt ggatgatgtt ggtggcgctc cagaaataag aaagtacatt tctagattct 120
t 121

<210> 13418

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-A7

<400> 13418

tacataataa acaatacaga cttagctact agtgctgtgc tactgtaaca ttgtttgatc 60
aatcctgta aacgtcagca agggatggat gttcttaaac atccgaattg tcagccttta 120
taagtcataa tatgtaagca gaactttttc gtactctatc gttttgaaat aataaatttc 180
attaatgact attaaataat tataaaatta tttaaatatt aattattata attaatttaa 240

tatatttttaa attatataat atatttttata ttttatattt tttcttattt tttttatggg 300
 ttttttattt tttttttttt ttttttttat ttattattat aatttttttt ttatttttta 360
 tttttttatt ttttttatta tttctttttt tatattttta atatatatta tatctttttt 420
 tttatatata t 431

<210> 13419
 <211> 349
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-054-Q1-K1-A8

<400> 13419

tcgtccgna ttcccgggtc gaccacgcg tgcgatcgaa tcgtctcgct cgtggctgct 60
 ttactcgtgc tgcttgccct cgccgcacgt tcctccacgc gcagcgcaca aaaggagtcc 120
 gtggctgaca acgccgggat gttggcaggc ggcacgaagg acgtgccggc gaacgagaac 180
 gacctccagc tccaggagct cgccgcgttc gccgtcaatg agcacaacca aaaggccaat 240
 gctcttctgg gggtcgagaa gcttgtgaag gccaaagacac aagttgttgc tggcacgatg 300
 tactatctca ctattgaagt gaaggatggc gtagtcaaga agctttatg 349

<210> 13420
 <211> 277
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-B1

<400> 13420

cccacgcagt ccgcgcactc gtccgaaaaa aaaaaaaaaat ataaaaaaaa aaaaaaaaaa 60
 aaaaaaaaaa agaaaagata aaaaaaaaaa aaagaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataa 180
 aaaaaaaaaa aaaaataaaa aaaaaaaaaa aattaaaaaa aaattaaaat aaaatcaaaa 240
 taaacatatt taaaaaaaaa tatataaatt ataaaat 277

<210> 13421
 <211> 221

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-054-Q1-K1-B12
 <400> 13421
 cggacgcgtg ggggtgctgta gtatatccgc tggctagcta gctagttgag tcagttagcg 60
 gcgatgattg agtaataatg tgtcacgcat caccatgggt ggcagtgtca gtgtgagcaa 120
 tgacctgaat gaacaattga aatgaaaaga aaatagtatt gttccaaatt aaatattttt 180
 ttatatttaa aaagggcgtc cgatctagag tgatccaagc t 221

<210> 13422
 <211> 396
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-054-Q1-K1-B6
 <400> 13422
 tactcgggtcc ggaattcccg cggcgaccca cgcgtgctcg attccacttc tagatagaga 60
 aactaactaa aggagaatac ttaataatag ggcggaacat ttatacaaaa cacctatccc 120
 gagcacacgc aagggaaaccg tagacaggca agtgaaatcc aatccacgaa ataaattgat 180
 ccatggacgg caccgttggtg gtaaagggtcg taatgccaga ggaatcatta ccgcaaggca 240
 tagaggggga ggtcataagc gcctataccg taaaatcgat tttcgacgga atcaaaaaga 300
 catatctggt agaatcataa ccatagaata cgacccta atcgaaatgcat acatttgtct 360
 catacactat ggggatggtg agaagagata tatttt 396

<210> 13423
 <211> 328
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-054-Q1-K1-C8
 <400> 13423
 actcgggtccg gaattcccg cggcgaccca cgcgtgctcg ttagaccaac tagcaacata 60
 taaatcacia tagtgtacca acaatggcan ccgaaatatt ttgcctcctt atgctccttg 120

gtattttctgc aagtgtctgct acggcgacca ttttcccgca atgctcaciaa gctcctatag 180
 cttcccttct tccccgtac ctctcaccag cgggtgtcttc ggtatgtgaa aacccaattc 240
 ttcaacccta caggatccaa caggcaatct catctggcat cttaccttta tcacccttgt 300
 tccttcaaca tatcatcaac cctattac 328

<210> 13424
 <211> 260
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-D10

<400> 13424

ttcccgctc gacccactca tcttgggaaa aaaaaaaaaa aaaaaaaatt aaaaaaaaaa 60
 aaaaaaaaaa aaaaaaaag aaatttttaa attctaaaga taacaaacac atacatacaa 120
 aaaaaaaca aaaaatataa aataaccaa ataaaatata tataaacaac tttaacaac 180
 attttttact tttaaaaccc ttccaatact atatctaaat tatctttatt atcacatcct 240
 ctttttctcat ttttccttaa 260

<210> 13425
 <211> 337
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-D2

<400> 13425

cggtattccc gctcgagcca cgcgtccggc tcggcgctct cctctcccga cgactgctac 60
 acctcacaac cgtgagctcg cgaaggagcg ctgttcgcaa ttccggcgcc ggcaccatga 120
 gtaagctgca gagtgattct ctgagggacg cgattgcttc aattaccaat gattcccgtg 180
 agaagcagcg caaatttatt gaaaccattg agctacaaat tggactgaag aactatgacc 240
 ctcaaaagga caagcgcttc agcggttctg ttaagctgcc tcacatccct cgccctaaga 300
 tgaacgtatg catgcttgat gatgctcagc atgttga 337

<210> 13426
 <211> 420
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-E7

<400> 13426

tgcagcattc aaaaacacac caagcgtaag cgcactagca acgacctaac accgattgct 60

accaagatat tagccctcct tgcgcttctt gcccttttag tgagcgcaac aaatgcgttc 120

attattccac agtgtcact tgctcctagt gccagtattc cacagttcct cccaccagtt 180

acttcaatgg gcttcgaaca tccagccgtg caagcctaca ggctacaact agcgcttgcg 240

gcgagcgctt tacaacaacc aattgcccaa ttgcaacaac aatccttggc acatctaacc 300

ctacaaacca ttgcaacgca acaacaacaa caacagtttc tgccatcact gagccaccta 360

gccgtggtga accctgtcac ctacttgcaa cagcagctgc ttgcatccaa cccaatttgc 420

<210> 13427

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-F10

<400> 13427

taattcccgc gtcgaccac tegtccgctt ataggcaaca tcaacaacta cttttcatcc 60

agctacctgt tgctaccag cgctttttct tccattcaac caactaacat cattgaactc 120

tcctgcttat ttacagcatc aacaactact accattcatc cagctatctg ctgtgagccc 180

tgctaccttc ttgacacaac cacatttggt gccctttctac catcacgctg cgcctaacgc 240

tgtcaccctc ttacaactgc aacaattgct gccattcaac caacttgctt tgacaaacct 300

atcatttttc taccaacaac ccatcattgt ttttgcctc ttttatattt cttattattt 360

atatttcatt attaaagttt ttt 383

<210> 13428

<211> 539

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-054-Q1-K1-F5

<400> 13428

gtactcggtc cggaaattcc cgggtgcgac tccacgtcgt ctccggtgccg agccatctgt 60
tnnnatttgt gtgagttgtg actagtggag cccttgctga gctgtggtgg ccgttgatg 120
cncntagatt gacgttcgcy tgtattttct gtnngaatta nntgaaatnc atgtgcnnnt 180
tgccgttgn nctgttttng aaaacctgtg tcgagtggc gagcccagca tttgtgcctt 240
aagtgtnnct tttcaatttc aatctgtttg aaacctgtg ttgagtggca tagtcatgca 300
gctctgtgcc ctaatgtcca tgtgctatca tcatgaagcc aggctaagcc aacaaagccg 360
tgcccttgca ttcacagaag ccaacaagca accagctcgt gccagatgaa gaagcagcaa 420
gctcgaacct taacttttaa agtgccttat agttttcaac ttttcagttt ttgtttggtt 480
ttacttgctg gaatgctttt taaccgtgtg caactatggc cacattgtga tgtggttta 539

<210> 13429
<211> 428
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-054-Q1-K1-G7
<400> 13429

tacgcttacc gcgtacgtac gtgtcttcgg gcgtggcact ctccagtctc catgacccat 60
ccaccaagtg ctactgctcc ttcgtaggga gacgtgggaa taaagagtgg tagctgcatg 120
cgcgtacggc ggccatggct ctccgatgag agagctagct gtgtacgtgt gttcgtgatg 180
ttgttccatg catgacatgt atacgtattg cctaattacg cttgaactag ttgagagact 240
gtgcaagttt attgttctat ttattatata attatatagt actcttttta tgggggtgtg 300
ttattttttt tattttttta ttttttttta tttatttttt attttattta tattttttat 360
tattttattt tttttatttt atctttttat tttattattt tattatttta tttttttata 420
atttttta 428

<210> 13430
<211> 389
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3059-055-Q1-K1-A11
<400> 13430

ggtccgtaat tcccgggtcg agccacgcgt ccgcgcagct cttgtgatca tgcggctgct 60
 gagaaaacta gagtaggtcg agaaggattg attatagatt gtttagaagg tattgccgtc 120
 taaggaacga agagtttggc cagaagcaac atgctctgag acagctataa acatctggat 180
 tgtaatgact actattcttc cagacttcat agacattttc ataggaatta ctctttccat 240
 tccagaaaac aggacgtata aatttttcac gaatattagt gcaggtatcg atgctcagtg 300
 ataaaataat gtataagtgg tgtgcaaatt tttctcgatc aaaatattat tttattattt 360
 ttatttttat tttttttttt tttttttttt 389

<210> 13431
 <211> 65
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-055-Q1-K1-A12
 <400> 13431

gacccacgcg tcttgagaaa catctcaacc aacatcatat aattcacaat actacaccaa 60
 ctact 65

<210> 13432
 <211> 366
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-055-Q1-K1-B11
 <400> 13432

attcccgggc ggcccacgcg tccgggtact tctccctcgc ccgccactct cctcccattc 60
 tccgccaccg ccaattccat gccgttctcc gccacggctg ctgagagcga gaagagatgg 120
 caggcaaggg tgatggggccg gcaatcggca tcgatctcgg cacgacgtac tcttgcgctg 180
 gcgtctggca gcacgaccgt gtcgagatca tcgccaacga ccagggtaac cgcaccacac 240
 cctcgtagct cgccttcacc gactccgagc gcctcatcgg agatgcgggc aagaaccagg 300
 tcgccatgaa cgggagggac accgtctttg atgccaagca tctcattggc aggaggttta 360
 gtgatg 366

<210> 13433
 <211> 354
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-B7

<400> 13433

tcccgcgctcg acccacacgt cgggtttcac tgtttagata ctgtacgttt taacctgcac 60
 aataatgtcc caagcttggtc tactataaat attttgcttc cttatcctcc taactctttc 120
 tccacatggt tctactgcaa ccattttacc acaatgctca caagctccta taacttcctt 180
 tcttcccca tacctctcac catcattgtc ttcaatttct aaaatcccaa ttcttcaacc 240
 ctacatgatc caacaatcaa ttccaacatt catctttacc attatcaccc ttaatccttc 300
 aacaaccttc atccctatta cttcaattac ttttttttca ttttttttct catt 354

<210> 13434
 <211> 480
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-C5

<400> 13434

gtccgtccga ttcccggctc cccacgcgtc cggccacgcg tcctgcgcta catgtgctgt 60
 ccatgcatcg atccatggca ggggacgtca agtgcgagca gccgaagcgg acgccgagcc 120
 cgagcgcttc gtctctgagg atcttcggct acgacgtggc tggctcgggt atcgccgtcc 180
 gcatcatcga gccttcgcct catgacgatt gccggccgtc cgtggtggac agtatgcgca 240
 tgtttgagtt tctgttttgt tgtcttgtgt tcttttattt ttattttctt tttttttatt 300
 ttttattttt tttttttttt tggggggggg ttttttttta ttttttttta tttttgttct 360
 ttttattggt tttttttttt tttttatttt attttttttt tttttttttt ttgttatttt 420
 tttttttatt ttttttattt tttttttttt tttttatttt ttttttttta tttttttatt 480

<210> 13435
 <211> 363
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-C9

<400> 13435

aattccccgcg gcgagccacg cgtccgcac gccatggcag ccaagatgtt ttcattgttt 60

gcgctcctag ctcttgtgca gcaccactag tgctacccat atcccagggc acttgtcacc 120

actactgatg ccattggcta ccatgaaccc atggatgcag tactgcatga agcaacaggg 180

ggttgccaac ttgctagcgt ggccgaccct gatgctgcag caactgttgg cctcaccgct 240

tcagccgtgc cagatgccaa tgatgatgcc aggtatgatg ccaccgatga caatgatgcc 300

gatgccgaat atgatgccat ctatgatggt gccgactatg atgtcaccaa taacgatagc 360

tag 363

<210> 13436

<211> 195

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-D3

<400> 13436

cgacccacac gtccagccac acgtccgccc acgcatccga taaaaaaaaa aaaaaaaaaa 60

aaaaaaaaaa agaaggataa aaaaaaaaaa agagcaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaacaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaacaac ccaact 195

<210> 13437

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-E2

<400> 13437

gtcggctgct gagctccgcc atgttatgac caacctcggc gagaagctga cttagtagga 60

tgctgacgag atgatccgtg aggccgatgt tgacggcgac tgccagatca actactagga 120

gttcgtcaag gtcattgatg ccaagtgagg agcgatcccc gttatctatg aatgaattga 180

agtgaatat caggcacaca agctgtactt tgccatgttc cttttgagta cacattatta 240

tcattgcatga tgtcttgtct agtaatttat caacttacta ctttttttat ggggggatatt 300

ttttcttact gaactcttct ttttattttg tatcttttat tactattttc tattttttct 360
acttttcttt attttttttt ttttttcttt tttttctcat cttttttttt tttttttt 418

<210> 13438
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-E4

<400> 13438

tcggtccgga attgccgggt cgagccacgg ggcacgcgtc cgccttggtc ctccttcaat 60
catcagccct attacaacag ttacgtttgg tgcatttatt ggcacaaaac atcagggcac 120
aacaactaca acaacttggt ctagcaaacc ttgctgccta ctctcagcaa cagcagtttc 180
ttccattcaa ccaactaggt tcattgaact ctgcttctta tttgcaacaa caacaactac 240
cattcagcca gctacctgct gctaccccc agcaatttct tccattcaac caactagcag 300
cattgaactc tcttgcttat ttacagcagc aacaactact accattcagc cagctagctg 360
gtgtgagccc tgctaccttc ttgacacaac cacagttggt gccgttctac cagcacgttg 420
cgctaacgc tggcaccttc ttacaactgc aac 453

<210> 13439
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-E6

<400> 13439

tcccgggtcg agccacgcgt ccggccacgc tttcggctag ttcacctttt aattttctta 60
aagagacaga agtgaagtgt aggctctaaa gttcagatcg ggggtgcaga aacatcgagc 120
aaagtagata aacctactat cgataccagt gttgacaaat ttgtaaata cgtgttcgag 180
atcatctccc cattgttctt gtctgaggca ttgaagaaat tggacattaa gaaggaagat 240
ctttctttga tcttagaagg cctcatggga cgggcagatc cagatttgaa gagtatagct 300
atgactttga agaatgggtg gtatactctt tagttttcac tgctattata attctatgct 360
tatatctttt tttatattgt tattttattt atttttcttt tttttatatt ttatttttta 420

tatTTTTtata tTTTTtattt aattTTTTttt attTTTTt

458

<210> 13440

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-F12

<400> 13440

ctcgggtccgg aattccggcg ggcacgcat ccgagataca tttccactgc aaccaatatg 60

tttgcataga tggcgctcct agctctttgt acatccgcca ctagtgcgac ccatatccca 120

gggcacttgt caccactact gataccattg gctaccatga acccatcgat gcagtactgc 180

atgcagcaac acgtggttgc ccacttgcta gcctagccga ccctgatgct gcatcaactg 240

ctggcctaac cgcttcagcc atgccagatg ccaatcatga tgccaggat gatgccaccg 300

atgac 305

<210> 13441

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-F3

<400> 13441

ggtcgggaat tcccgctcg acgccacgcg tccgagagca acatagaaag tggaatccag 60

tagcatcaac agagcaacaa tggcgaccag gatgttttcc ctccattatgc tccttgctct 120

ttctgcatgt gttgctaacg cgacaatttt ccctcaatgc tcacaagctc ctatagcttc 180

ccttcttccc ccataccttc catcaatgat agcttcagta tgtgaaaacc cagctcttca 240

gccctatagg ctccaacaag caatcgagc aagcaacata cctttatcac ccttggtggt 300

tcaacaatcg ccagccctat ctttggtgca gtcattggta caaaccatca tggcacagca 360

gctgcagcaa ctggtgctac ctgtgatcaa ccaagtagct c 401

<210> 13442

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-F7

<400> 13442

tcccgcgtct acccacacgt cctagtgttc atcgtgccct aagtttctct ccttcaccgc 60
ggagctcaag tactgctcgt tttattacaa attctgtcgg cacaccattt ctatcatcac 120
caactattta atattcatca actctcatca aattctatca acatttttct taatcttttt 180
atcttatctt tttttcattt tttatttatt tattttttat cttaatatct tattttttta 240
ttatatattta tatatcattc ttaattattt attctttttt attt 284

<210> 13443

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-F9

<400> 13443

tcccgcgtcg agccacgcgt ccggaataat ctgtacttgt tggggactta ttattgccaa 60
tgaacttttag cagcgaatgt ttatgtgcag ctggtgtagt aaattcaatt gtgctctggt 120
ttccctgttt gtgttcatta tagttttatt tatatttatt tgcgggggtgt gcgctgattt 180
ttgttttaca tttactctat tatttttact gttttttatt ttcttttttt tatgattatt 240
tctttctttt tttttacttt tttttttttt aattttttta tctttttttt tttttttttt 300
ttattttttt ttttgggggg gttttttttt tttttttttt attttttttt atttttttta 360
tttattttta tattattttt tatttctctt tttatttttt tttttttttt ttttattttt 420
attttttttt ttttattatt ttt 443

<210> 13444

<211> 408

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-055-Q1-K1-G4

<400> 13444

tcggtccgga attcgcgggt cgaccctgac gaggagtcc acagctgccg aaagcttcta 60

tttcaggcac anataatgct tgaaaggggtg acaccacaga tgatgcacat ggcaaagagc 120
 caacagccct cgggctcctt atcacaatct tcatctcacc tcaatgagcc atatccacag 180
 acagatgcta tgattccgct agtctcaaga ccttcaagtt tgccaactaa cataccaccg 240
 aacccaactg tcttacagga acaaactgca aactacata gtattcctca gcatcaacat 300
 gcatcccagc ccttagtcaa aatgtttcca catggacatc agtctgggat cgccgcacaa 360
 tctccaatgc tacatcatgg agctatagtg ctggttctgt tagcttac 408

<210> 13445
 <211> 481
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-G5

<400> 13445

ttcccggctg actccacgcg tccgcgccac gcgtccgagg acgcgttgga ttgcatcggc 60
 atgtgcactg ttaatgtctg caaaatttaa acattggtgg gtaatacaaa attaatttta 120
 acaatatttt tttattttat atttaataat ttaatttatt tcaatattat atattttatt 180
 ttttatattt tttattatta tatatttttt attttatttt ttatttttat ttttatattt 240
 ttatttttat ttttaatttta ttttttttta tttattattt atttttattt tattattttt 300
 attttttttt ttttattttt tatttttatt ttttgtaat attaattatt ttatttttaa 360
 ttattattta taatatatta tttttttatt ttattatatt aatttttttt tttattttta 420
 ttttattatt tttatttttt ttttttattt ttatttttat atttttatta tatttttttt 480
 t 481

<210> 13446
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-G7

<400> 13446

aagcaaagca aatctgcaat tgaattcaat ccagtccaaa attgcaagtc gtccgtaaga 60
 taaacgaaca tattcgtttg tacggtaatg taacataaaa ttctcatcta atgcctggac 120

ttcttcttcc tagatttgtt gctagttttt ggctgttcag catttaccgc cggtgtcttt 180
gatgaattgg tggtttggtt tccttttgag gattctccga cattggtggc cgattttttt 240
ttttactact ctctttttgc tcctttttct ttatcctttt attttggggt gtttttcttt 300
atctgtttcg tttttttatt tttttgttat tttttttttt attttttttt ttattttttt 360
ttttttttta ttctttttta tttttaattt tttttttatt tattttttatt tttttatttt 420
ttttt 425

<210> 13447
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-H12

<400> 13447

acttgtccgg aattcccggc tgcacccact cgtcacgact gaactcggca caatctaacc 60
cattattata cccatcggca accgcaacca accaaccaaa tgaccgtgat ccaacctaac 120
cgtgggtgaa ccctatcgcc tacttgcaac aacagctgct tgcattccaac ccacttgctt 180
tggcaaacgt agctgcatac caacaacaac aacagttgca acagtttcta ccagcgctca 240
gtcaactagc catggtgaac cctatcgctt acctacaaca gcaacaactt ctttcatcta 300
gcccgcctgc ttttggcatt gcacctacat acctgcaaca ac 342

<210> 13448
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-H4

<400> 13448

tcccgcgtcg acctacgcta tgattgactt gtgaagggtc ttcgcgtggc tgccaaggcc 60
attgagaatg atgctgctca gctttgcgtt gttgctgagg actgtgacca gccagattat 120
gtcaagctgg tgaaggcgct ctgtgctgaa cacaatgttc acctgtcac tgttcctgct 180
gctaagactc ttggcgagtg ggctgggctt tgcaagattg actcctaggt caaggcaagg 240
aaggttgtat gctgcttctg tgttcgtttc aatgtctact gttaattatt ttatggtctt 300

aacattgtgc ttgagttttt ttattcttta ttttatttta ttttttttat ttttatcttt 360
tatttttgta ttaggtctaa atattttttt ttattttttt tttttttctt tttttttttt 420
ttcttatttt ttttttatta tttccttttt ttttt 455

<210> 13449

<211> 207

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-A11

<400> 13449

tcttccgcac ctgctcatat tgccctacat ctagcaagct gtggcaagct gtagggcatt 60
ctgtcctcag tcaactgttg tcactctgta ccagcatttc gccattaaca cgggtgtgcgt 120
tcttacatca tcaaccatgc ttgccctaga gccagctcgt tgtgccagaa tcaccgcaca 180
tttcatgaca tcccattata gctagtt 207

<210> 13450

<211> 254

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-B1

<400> 13450

actgaaatga ggatagtatc gcagcttttcg tgattaaaac ctgaatcacc cacagcgggtg 60
ttctaagtac tcagccagtg gtatttactg gttgacctac tgtagtttgc gtcggaatag 120
atgtgttttt ttactcttcg tggggcagtt ttgtactggt ggattcataa ggactctgat 180
tatggtgcgt tcggaactta taataataag cacatgaaat tttgcttcaa aaaaatacta 240
ccattcaaac agat 254

<210> 13451

<211> 197

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-C6

<400> 13451

tgcactaaga acatgaaaga tgcttcttta agaaaagaag aaatgaacat agattgtgga 60
 gcatgcatct gtggcccacg agacaatata aacagtgtccc ttcacttggt agaggaaaca 120
 ttttattcaa aaggacagat taaaattgca gacacaggaa ggatgcatgt catgaaagtt 180
 tttgaaagtc attgaat 197

<210> 13452
 <211> 383
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-D3

<400> 13452

tggagctccc aaactagccc taaaggtttc cactcccaga agctccgttt tttttgtgtc 60
 ttgctacaga actgttattc atgtgggcca caggagcagg gagagagatc tgggtggaga 120
 agggcctgtg aggaccagat cgcaaagctg aagaagagga gcgtggcgaa ggattcaaaa 180
 gaagaacctg tcgtggggcg ctgcgatgag gagaatggcc gaggcgttag caacggaata 240
 gctgcgacaa gcgaccctgc caaatgcagc tgtactcgta cgtagcatgt ggagcgaaac 300
 gaaacggaat atattttctg gtgggtacaa tttggtctgc aaggttttta aagcgtggat 360
 ctaaagatgt ccagatggaa acc 383

<210> 13453
 <211> 384
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-D4

<400> 13453

tggagctcgg aaactagccc taaaggtttc cactcccaga agctccgttt tttttgtgtc 60
 ttcggcacac atctgttata catgtgggcc acaggagcat ggagagagat ctgggtggag 120
 aaggctcctg gaggaccaga tcgcagagct gaagaggagg agcgtggcga aggattcata 180
 agagaacctg tcgtggggcg ctgcgatgcc gagaatggcc gaggcgttag cagcggagta 240
 gctgcgacaa gcgaccctgt caaatgcagc tgtactcgta cgtagcatgt ggagcgaatc 300
 gaaacggaat atattttctg gcgggtacaa tttggtctgc aaggttctta aggcgtggat 360

ctaaagatgt ccagatggaa acct

384

<210> 13454

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-D7

<400> 13454

taccggtctc ggattcccg gtcgactcac gcgtccgcag acgcgtgcga tggaaaggta 60
gccttcgatg attatcttga tgctacagga tcagggatga aggcattcact cagcacaata 120
gggatgcaca gaccaagatc ggatgtatct cgatcgaact tagtcatatg gctacagtct 180
aaacccaacc atgagataga tatggctacg tgctaagcac taatgatgaa ttatagctgc 240
tgaacaccta tgtgcatgag attctataac atgttcttgc gaaagatgaa aatctgtaga 300
tcaatcaagc tgaatgtaaa aagtcgaagc atgaccaatg ctagtgctaa tgacacagct 360
attgcatcaa cattcaggag agttgcacag attatataga ctgtgcatag gtccaatgct 420
tattggacga ctgagtgcc a gactatgat 449

<210> 13455

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-F9

<400> 13455

ttcccggtcg actccacgcg tccgctgacg acccacacga gcacttagcc gttgggaggg 60
gcgatggcta gaggtgtggt gtgagcgaag ggcggcacgg ccgcgggcaa gaagaagggg 120
tcggtcgctt tcacgatcga ctgcaccaag cccgtggagg acaagatcat ggagatcgcc 180
tcgctcgaga agttcctgca ggagcgcac aaggtcgccg gcggcaaggc cggctacctc 240
tgccaatccg tcatcatctc ccgcgagaag accaagggtca ccgtcacctg cgactggccc 300
ttctccaaga ggtatctgaa gtacttgacc aagaagtact tgaagaagca caagggtgcga 360
gattggctcc gtgtgattgc agccaacaag gaccacagcg tctatgagct gcggtacttc 420
aacattgctg agaa 434

<210> 13456
 <211> 219
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-056-Q1-K1-H12

 <400> 13456

 gctgcacaac ctacaaggac agccagggct accaagaagc ctatctatat tagcgatggc 60
 gaccctgagg atgaagtgga gttgattgat gattcggact ttgatgcgga cggtgactct 120
 gacgagtga gattgtagtc atccgtactt tggctgcaac aatatccagt ttgtgtcgtt 180
 gcatgtgaca atttgataat gcatttcttg tgcgttgta 219

<210> 13457
 <211> 148
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-056-Q1-K1-H7

 <400> 13457

 cggttcggaa tccccggctc gaccacgcg ttcgatcaca ctttcttcca tacatttta 60
 ttatagtcac gtatctccat tctaaagtat ggttcaaata ttcattcttg ttacacaaca 120
 tttgtccctg aatattccta attataac 148

<210> 13458
 <211> 367
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-057-Q1-K1-A11

 <400> 13458

 tgagaccaac tagcaacata gaaagcacia tagtgtacca acaatggcag ccaaaatatt 60
 ttgcctcctt atgtctcctg gtctttctgc aagtgtctgct acggcgacca ttttcccgca 120
 atgtctgcaa gctcctatag cttcccttct tccccgtac ctctcaccag cggtgtcttc 180
 ggtatgtgaa aacccaattc ttcaacccta caggatccaa caggcaatca cagctggcat 240
 cttaccttta tcacccttgt tctgcaaca atcatcagcc ctattacatc agctaccttt 300

ggtgcattta ttggcacaaa acatcagggc acaacaacta caacaacttg tgctagcaaa 360
ccttgct 367

<210> 13459
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-A2

<400> 13459

tgttcctgtt gttggaggcc atgcgggtat tactattctg ccactcttct cgcaggccac 60
tcctgcaagc aattcgttgt cccaagaaga cattgaggcc ctcaccaaga ggacacaaga 120
tggtgggaca gaggtggttg aagcaaaggc gggaaaaggc tctgcaacgt tgtccatggc 180
atatgctggt gctgtttttg cagatgcatg tttgaagggt ctgaatggag ttccagacat 240
ttagagtgc tcttttgtgc aatcaactgt gacagagttg ccattctttg cctccaaggt 300
tcggctcggc aagaatggag tggaggaagt gcttggctctg ggtgagctca acgagttcga 360
gaagaagggc 370

<210> 13460
<211> 476
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-A8

<400> 13460

tactcggttc tcggaattcc cgggtacgac gccacgccgt accggcaaca aaggcctaag 60
aacgaagaca cgaatagacg gcatgactac tgctgtgaat gaggaactgg cgtgaagtgg 120
atctgaatgc ttggatggac ttacgcagtc ctgaaaagag gcatacatga tgacggaata 180
cttcagaagt ttctacgcaa ctcacgtagc acaaggcact tcaggagtat gacccatcgc 240
tagtgggttg agagcacact tcaactggat gaaaggagat gctttaatct caaaggcttt 300
agctattcat tccactcgaa agctacagca tgatctacta tgaggagtta ctacaacaga 360
caagcaagtc aaactctcaa gctgtatgcc agaagaatgt tcatatgtgc tgaatctgat 420
gaccttggtc caaaatatct gagctatttg aggtgtattg ttgactcaga cgcact 476

<210> 13461
<211> 441
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3059-057-Q1-K1-B3

<400> 13461

tcccaatcct ctcttacgcc gatttctacc agctcgcggg agttgtggcc gtggaggtca 60
ccggtggggc tgagattccc ttccaccccg gtagggagga caagcctcag ccccccacctg 120
agggccgcct tcttgatgcc actaagggtt ctgaccacct gaggcaagtt tttggcaagc 180
agatggggctt gagcgatcag gacattgttg ccctctctgg tggccacacc ttgggaaggt 240
gccacaaaga gcggtctggt ttcgaggggg cctggactac aaaccctttg gtctttgaca 300
actcttactt caaggaactt ctgagtgggtg ataaggaggg ccttcttcag ctcccaagtg 360
acaaagccct gctgagcgac cctgtttttc cgctcttgt cgagaaatat gctgcggatg 420
agaaggctnn tcttgatgac t 441

<210> 13462
<211> 179
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-B8

<400> 13462

cttgctttga cagaccacgc ggcctcctac caacaacaca tcattggtgg tgccctcttt 60
tagattgctt attagttgta attcaataat aaagtttttt ggatgatgta tgtggccaac 120
cagaaataag aagttacatt tccagattct aaaaaatata aaaaatgagt ataagaaac 179

<210> 13463
<211> 270
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-C10

<400> 13463

accggtccgg cattcccggg ttgaccacgc cgtccgcttg gctatagctg aattttcttg 60

ttagtccctg tagtgcttag ccaggggtaa cgtaaagagt tctgttttagg ttgccttctt 120
 gcggccacaa tcatgtagca gaatgtgctg gtgtttcagg ttagcgtggg ggtatgtgca 180
 tctgtccaaa gagagtctgc aatttggcaa ccggatattt gggtatcaat ttcagttact 240
 tcgaaaacaa aacatacgaa tatgtgacat 270

<210> 13464

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-C12

<400> 13464

cggaattccc gggttgacct acgctgccga accgctgctg aaacgaatcc atcgccatgg 60
 cgtctcgtct cgttgccggcg gcgggctcct cctcctccct ctctcagcg tccccctcg 120
 ctgcctaata ctctcgccgc ggtcttgccg gtgccgcaga cggccatggg tctgcgaagg 180
 tgcccttggtg gaaagatccg ttgagcccga gcaagtggaa ggaagagcac tttgttctag 240
 caagcctctc aatgtggggg gttatTTTTT atggcgggta caagctttct agtggaaaga 300
 atgaagccaa gactgaagcg gcatcaccac aggcataagt ggcctagatg gagttatacc 360
 cgtatctgtg gcctggcaac aatgttaaataaaaaggaaatg ctttatg 407

<210> 13465

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-D12

<400> 13465

tccggaattc gggtcgacta cgcgtccggg cgcgctccg cggactcgtg agctgacgcg 60
 cgggcagaat tgccgaggtc cgtgggacca aggagcctaa gaacctgtac aacatgcact 120
 tattgaaaca cttgacttag gcgaacatga agactgagac gagccagtca gctgcaaagg 180
 actctgctgt ggtcctctct actaccaaga ccaataagca gaacgcacct gcgaagctca 240
 tccacaaggc tgtgatgcac aaggagtcc gcaagatggc caacgctgtc aaaaaccagt 300
 ttactgacta ctactacagg cctgatctg 329

<210> 13466
<211> 61
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-D8

<400> 13466

cccacgcgtc cgaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa acaaaaagg 60

g 61

<210> 13467
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-E5

<400> 13467

ggaatcccg gtcgaccac gcgtacgaaa aatcatgggt aattaaagt ttattgtaga 60

aaaaaaaaaa aaataaaata gaagggaata caaaaaaaaa ataaaaaaaa aaataaaaaa 120

aaataaaaaa aaagaaaaaa aaaaaaaaaa aaaaaaaata aaaataaaaa aaaaaagaga 180

aaaaaagtaa aaaaaaaaaa agaagaaata aaaaaggggg atcattctta aagatgcaaa 240

gtttattaac attatatata atggataaat ttataaaaaa gggccgcaaa aatt 294

<210> 13468
<211> 399
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-057-Q1-K1-F1

<400> 13468

ggaattcccg ggtcgacnac gcgtccggcc aggtcgcagc agtagccatg tttttgctcc 60

tcttggcctt ggggtgctgag gccgacctct gcgtcacgcg tagcaggacc ttcaaagggt 120

ggtgccacca gagcgagaac tgcatacccg tctgcaagag cgaggggcaat accggcgggt 180

tctgcaagct cggggcttgc atgtgcacca aagagtgtgt ccgaagtact gacgctgctg 240

gtgctaataa agccccacag cagcatttga gttgatgagt agtaaagaag aacgcttttg 300
 ttatgccagc gcaagctcta gaattcgagg ccgagatgac caaaaataaa tgattttgtt 360
 actctattat atgagcgaat atcgggtgtg gttgttctc 399

<210> 13469
 <211> 349
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3059-057-Q1-K1-F3

<400> 13469

cggattcccc ggtcgaccca cgcgtacgca anaagcagca caagagtgag gtacaagaac 60
 accatgagaa caacgatggc agccgggatg ggttccatgc taatgctgct tgctctgtgt 120
 aggtgaggag cgaacgcgac catatgggcg aagtgactcc gtgctcatat aactagatct 180
 gctctatgga tacttatcca tcattgacca gattgagtgt agtgaaaact cgatagctat 240
 gaacactaca ggctttgaac acggtatact gcctacgcaa ctgaccttta taagccctgt 300
 actttcgaca ctcgtagagac cgatgtctgt agcactcatt ggttcatac 349

<210> 13470
 <211> 332
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-F9

<400> 13470

accggttcgg aatacccggg tctaccacg cgtccgcgca cgcgtccgat cgatctcgct 60
 ttaaattccat gcatactcgc ttccggcgaa cggcagcatc tcaaccccat ggcctagatc 120
 aagatcggaa tcaatggggt cggcaggatc ggaaagctgt atggacatgg tggccctgca 180
 aagtgtcgat gtatagctca ttgccatgaa ctacgacttt atcatcaccg actatatgag 240
 ctacatgttc aattactaga ctgtgcactg acagagcaag caccatgaaa ataaacgtaa 300
 ggacttcaaa acccttctat tttatgagaa tg 332

<210> 13471
 <211> 340

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-057-Q1-K1-G3
 <400> 13471
 cctcgtccgg attccccgggt cgactcacgc gtccgcccac gcgtccgccc acgcgtccgg 60
 ggtgagaacg atctgcctgg tttaactgac actgagaagc caaggatgag ggggtcccaaa 120
 agggcctcca agatcaggaa gctgttcaat cttgcaaagg atgacgacgt gcgcaagtac 180
 gtgaacacgt accgcaggac attcactacc aagaatggca agaaggtgag caaggcacct 240
 aagatccagc ggcttgtgac ccccttgacc cttcagagga agcgtgctag aattgctgac 300
 aagaagaaga ggatcgctaa gaagaagtct gaggctgctg 340

<210> 13472
 <211> 392
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-057-Q1-K1-G9
 <400> 13472
 tgaagaggaa gactatcacc cagggacaag ggagcagtag catctgccgt cgctatgttc 60
 caccacaggg tacaccagct cgtcctggag gagggcaact gtcctaccaa cgacctgctc 120
 tgcataatcc acaggcgact ccgcatactc gccagggtgc cccactggc accccaacga 180
 gacctactgg ccagggtact actacagtca ccacttgctt caagtgtggt gaggttgggc 240
 actacgcaa tgcttgtccg aagaggaatc ccaacacacc cgctcgaagc aatgtttaaa 300
 gcaagcaaca gactctggct accggccagg ggtccaataa tgctagagtc aaccaaatta 360
 gtgctgatgc tactgttgac gatgatgata tt 392

<210> 13473
 <211> 230
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-057-Q1-K1-H3
 <400> 13473
 gttaagtccc aagtcccact aggtgggttaa gcagaaaaat cttgtgatgg cattaagact 60

ttcagacttt gtttttgggt ctgatgcatg taaaaaggat tcccagtggt tctgttgctc 120
 ttgcgatcct gtgaggacac atatgagaga aatatttagt ttgttgatgg caaatcttgt 180
 cttatgttca tgccctgtacc tatctgatca agcgttatga tatgatccaa 230

<210> 13474
 <211> 398
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3059-057-Q1-K1-H4
 <400> 13474

ccggattccc gggtcgacna cgcgtccggg aaaaggcagc cttctcaccg tcggaccccg 60
 cgatgcagcg gcacgtcgcc tccggccggc cgtcgggcac ggacggctcc gacttttctt 120
 accgcatggt cgtcgaatcc cgggtaccaga gggtcgccga gggcagatcc cgcctcgcgc 180
 gctcctcct cgtgcaggcg ctgcacctag tggccggagg cttgcttcta ttgctgtcgt 240
 tgtccaaggg ggcggcggtg aacaagtctg ccgtgctgtc catggccgcg ggattcctgg 300
 ctatagtggg gggggaatta gggcgaatgc ggaccatggc agtgctgctt cggctttaca 360
 caagctagtc atcaattgcg gttgcattct ctgtgacg 398

<210> 13475
 <211> 224
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3059-057-Q1-K1-H9
 <400> 13475

ttttaaaggg ttcaagctta actacctcat tttccaact tattagcttt tttaaattgt 60
 ccctaaattt aaataaattg cccgtatttt aaaaacgtat aacttggaac aacctgggga 120
 tccccaatth aaatcccttt gaagaaattc cccttttacc aagttgggta aataccaaaa 180
 agccccaac gattggcctt tccaaaaatt tgccaaccta aatt 224

<210> 13476
 <211> 450
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-A3

<400> 13476

```

accactcgt ccgacgcac cgggtgccag ctcttactcc gtcctagcgc tacttgccct 60
ctttgtgagc gcagcaaag tgctcattat tccacaatgc tcacttgctc ctagtgccat 120
tattccaaag ttctccccc cagttacttt aatgggcttc gaacaccag ctgtgcaagc 180
ctacaggcta caacaagcgc ttgcggcgag cgtcttata caaccaattg cccaattaca 240
acaacaatcc ttggcacatc taacaatata aaccatcgca acgcaacagc aacaacagtt 300
cctaccagca ctgagccacc tagccatggt gaaccctgcc gactacttgc aacaacaact 360
gcttgcaccc aacgcacttg ctctggcaaa cgtagtgtga aaccagcaac aacaatagct 420
gcaacagttt ctgccagcgc tcagtcaact 450

```

<210> 13477

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-A6

<400> 13477

```

ggattcccgg ctgcagcca cgcgtccggc gaaccgcact atcaacgttc taaccttaat 60
ggctaccagc atattatccg tctttgggct tcttgccctt tttgtgagcg caacaaatgc 120
tttcattatt acacaatgct cacttgctcc tattgccatt attccacact tcctccctcc 180
agttacttca atatgcttgc aacaccagc tgtgcaagcc tacaggctac aacaatctct 240
tgcagcgagc gtcattata caaccaattg tccaattaca acatcaatcc ttggcacatc 300
taaccatata aaccatcgca acgcaacagc gacaacaatt tctaccatca ctgatccatc 360
tacctgtgct gaaccctgtc gtctacttgc acagcaattg cttg 404

```

<210> 13478

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-B3

<400> 13478

tacattcacc aagcaatcta caacatgggt caatccataa tccaggagga gcaacaacgg 60
caaccatgtg agttatgtgg atctcaacaa gctactcaaa gtgcggtggc aatcttgaca 120
gcagcacaat acctaccatc aatgtgcggc ttgtaccact catactacca aaataatcca 180
tgcagcagca atgacattag tgggtgtttgc aattgaagaa ttgtgtctac ctagccgtta 240
tactcctata acggtgttaa gcaataaagt accatacatt atgatgttaa aaaaagccat 300
agacagaaaa atgggtcaaa gctaagcaag agatgtacca atcaacatta aaagagactc 360
cgatacatga gtacc 375

<210> 13479

<211> 124

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-B8

<400> 13479

accggtccgg aattcccggg ctgggcactt aatctgcatg gactaatttg gtttacttag 60
ggtgatcatc atcttctcac tcattttttg tttggtttgt gcaatggaat gagttgatca 120
atca 124

<210> 13480

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-C1

<400> 13480

tcgacccaag cgtgcgcca cgcgtccgga agaggagat acatgttaat ttttaggtac 60
cagatcatct gattgctcag aagcgaaatg ttgtttggag ctcaagtaca ccatcttgta 120
atgcctgtga ttttacggga aatggaggat cattctgtcc atcccatgtc taagtctaac 180
catggctcct tgtcaggaaa tggttatgag atgaaacatt caggccataa agtttgcat 240
agggattcat catcggagtc tgatcgggtc caccaagaag catcagcagc aagtgaagc 300
agtccaaatg aacacacatc aactcaatca gacaatgatg aagatcatgg gaaagataat 360

caggacacaa tgaagccagt attgtccttg gggaaggaag gctctgcctt ttggccccaa 420
aattacatta cagccca 437

<210> 13481
<211> 248
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-D1

<400> 13481

attcccgggt ctaccactc gtccgaatga ggtataaatc atcgttgtgg tgtaaaaaaa 60
ttaaaaaaaa ataaaaaaa aaaagaaaaa cggaataatt aaaaaaaa ataaaaaatt 120
aaaaaaaa ataaaataaa aaaatataaa gtacaacctt ttttaaatcc ccaaacttac 180
tttcaactac tttcaacata ataactttcc tttaatgtcc caaaatttca attcattacc 240
ctttatatt 248

<210> 13482
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-D11

<400> 13482

cggaattccc gggtcgaccc acgcgggcgc tcaactacat gtttgatctc agcgagcagc 60
atgcccacag cattgttagc aagatgggga tgcgtgaaga gcttcatgct agctgggacc 120
agccaacaaa gtgcatcgta ttccatagtg tggaccaaac taggcttcag gggctactct 180
tccagatggc agataagctc tcggtcctgg tggagatcaa tgagagggca tacgaggcaa 240
gaactgggtg tgctctcgag ggggtaccgc ccaggcgagc gggtgagggt caggataata 300
tgggaaagtg gcaggataac tttgtctcgt cacaggggag gcagggtggg ggcaaccggt 360
ttggatactc cggcagaggt gcaatatctg gtcaaagtgg tggaggacac cagagggaca 420
ggggcaatca gggttaccgc gggggctatg gtggcggttc aa 462

<210> 13483
<211> 123
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-E5

<400> 13483

cctccatccg cactactgag agcgacaaag ctagctctct ccagggatcg gattcggagc 60
accatgccgt ccaccgtgaa ctccgcgtcc ctcgaccaga accttgagct cgccaagcaa 120
tgc 123

<210> 13484

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-F9

<400> 13484

tacctcctcg gaattcccgg gtcgaccac tcgtcctcgg actcttgga aaaaaaaaaa 60
aaaattaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagaaa aaagaaacca aaaaaaaaaa 120
aaaaaggcca cccatttata agatcccaac ttaactaccc cttcattcca aataattact 180
tttttttttag tgcacctaaa ttcaattcca ttgccctttt tttaaaacct tcttacttga 240
aaaacccttg ccttacccaa attaattccc tttaaaaaaa ttccccctttt cccaacttgc 300
tttattacca aaaagccccg acctattcgc ctttccaaaa ttttcccaac cttaattgcc 360
aattggaacc cccctttaac cgcccattta accccgccgt ttttggtgtt tcccc 416

<210> 13485

<211> 412

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-058-Q1-K1-G2

<400> 13485

tcgaccaacg cgtccgaaaa agacgacgac cagcttacct ttactaccgg caagtgcccc 60
tgccggtcct ctgggcagcc agttanattg tacgactagg tatcgtcgta cgtcgtgccg 120
catgcatgca tgcgcagaag gccaaagtgg ctatgcagaa agcgtagcat atatcataca 180
tgagcaacgc caaactgtgt agatatgtgc aagttttgca gtgtgctaaa tgcattgtgcg 240

cattgaagag gcaagcagcc caatttgcta ctcattggcca gtaatcgaac aatgataatg 300
 ttgccaaaac tactagcgca tgttacatcg tgtgatgcat atcactatat gagcatgtgg 360
 aatcaagcat gcattcctgag atagtagctg tgctgggtata tattactgca tt 412

<210> 13486
 <211> 350
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-G7

<400> 13486

ggaattcccg gctcgagcgc acgcgtccgt gaacaattga aatgaaacga aaaaagtttt 60
 gttccaaaaa aaaaaaaaaa aaaaaaaga aaataaaaaa aaaaaaaaaa ataaaacaaa 120
 cactctaaag gttccacgct ttcgtacatc caaatttaca ttcccttcct ttctatgtca 180
 tcactcttat atattgtaac ctaacttcaa ttcacatacc catcggtata caaaaccctg 240
 actttcaaaa ccttattcctt acccaactta ttcccccttt agccaattcc cttttcacca 300
 actagcctaa taccgatcag ccttgcaccc atcgcccttc ctaacatttc 350

<210> 13487
 <211> 255
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-H7

<400> 13487

gtgaaaataa agcatccttt tactataatt gatgtcgcat tagttattct gaaccaggg 60
 agcctgggtc agtacctact accctgttta tcataggacg tggagagAAC tcgtccagtt 120
 ttacattccc gtcactgctt tgccggagtg ctgtggcaat ccataaaatc taataaagta 180
 acaataagct gtctgcaact gcaaaaaaaaa aaataaaaaa aaaaaaaaaa acaaaaaaga 240
 aaaaaaataa acaaa 255

<210> 13488
 <211> 395
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-H9

<400> 13488

aaggaaaagg gtctgcagaa atcctcttat gcagggtggaa agaagctaag aacatatcac 60
aatcttttga cgataaaagc ggagatcctc tatgatgagg tcaaacaaaa catgtttcta 120
cggaatcaag aaagcttgac acagtcgatt ctgtaggcat tccacccaaa ccccgatcac 180
atgctatgga aaccacccaa ttcagggcac aggaaaatta ttggttcttc acggacatgg 240
aaatggcatc ataagagttc tctccaatct cttcaatc cccagttatc gttacggatt 300
tcacgtcaa acttcttctt gagttcaggg tactttctcaa agtaatcatt tgctgtcatt 360
gtactgatct ttttctcat ttcctccatt tcagc 395

<210> 13489

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-A1

<400> 13489

tcctgcggcg tcggcagcgt cggcagcccg ttctggggcc agtgcgtcga gttcctgagg 60
caccagtga gcccgggcgc gacgccctac ggctcgccac agtgccaggc gctgcagcag 120
cagtgtgcc accagatcag gcagggtggag ccgctgcacc ggtaccaggc gacatacggc 180
gtggtcctgc agtccttctt gcagcagcag ccgcagggcg agctcgcggc gctgatggcg 240
gcccaggtag cgcagcagct gacggcgatg tgcggcctgc agctgcagca gccagggtccc 300
tgcccttgca acgcagctgc cggcgggtgc tactactgag gaaactatgt actggagtaa 360
taatgtaatg gagccgctgg ctagctacct agctcgctag tttactcatt t 411

<210> 13490

<211> 474

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-B1

<400> 13490

ggccggaatt cccgggtcga cctacgcgtc cgattggaat tgaaagatct gcatgtccat 60

tgccttttga tgaagccaaa ctttgtcggg gcgaaaatgg tcctgagcta aagcaagaga 120
 ttcagaagca atttagaaac attagtgcaa ttatggactg tgttggatgc gagaagtgcc 180
 gactgtgggg aaagctccaa gttcatggtc ttggaactgc actgaaaatt cttttctctg 240
 ttgatgggga cagccatatg aatcagccat tgcagctgca gcgaaatgag gtcattgcat 300
 tgttcaatct tctgaacagg ctctcagagt ctgtcaaatt tgtacatgaa aaaggatcat 360
 caattgaaga agtcattgag gaacagatcc cttcaacggt tcaaaagagt gtttccatgc 420
 cgaatcttaa actggactta ctctgagatg tatgagagta atttgtagtt atac 474

<210> 13491

<211> 155

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-B11

<400> 13491

gacccactcg tccgccgaca cgtacgcca cgctccacc ctctcgtccg cccacgcac 60
 ctctagtcac aagttccttg caaacgattg cctatcccc tcccaaccaa agacctatgg 120
 cacccaatgc cgagaagaag cccactccca agaaa 155

<210> 13492

<211> 471

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-B3

<400> 13492

ggcccggaat tcccgggtcg acccactcgt ccggttaaga agtgggtctc caagactagt 60
 tgaactgaac gattttgtgc gtcaacgaca cagcaaagga tttcttgatg ttcttagttt 120
 tagtgagacc caggtcacac cgattgttga aggatatggc ggttgggcac ttcgtatgga 180
 gatagtgcc attgaatctg catacccagg ctttggggag cttgtcgttc taccgtccac 240
 tgatcatata aattcatgta agccagttaa catgaacgat ccttcttatg cggaacctt 300
 ggcatttttg gagaagaact tcaaattatg cctggaaaga gcagagtcct aggtcttgtc 360
 aatggcgccg tggagttttc agcaatctga aggttcatt ttccatttac cgtcagagac 420

ttttctcccg ttaacgacga atggtggttg atctgaccat atgatctggg c 471

<210> 13493
<211> 193
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-B4

<400> 13493

accactcgt ccgactgtta attcggttcta tctgcctacc tttcgcatte tcttgaaccc 60
attctctata cgagtatcga tatcactgag ctaaaactta tcattcgact gcattccatc 120
atctatatat aaactatcga cttcgatctc ttcgccacga tccatctcta aatcagcact 180
cactacctta cct 193

<210> 13494
<211> 476
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-C1

<400> 13494

tcctgcattc ccggatcgac ccactcgtcc gattgagacc aactagcaac atagaaagca 60
caatattgta ccaataatgg cagccaaaag attttggttc attatgctcc ttggtctttc 120
tgcaagtgtc gctacggcga gcattttccc gcaatgtcga caagctccta tagcttcctt 180
tcttccccca tacctctcac cagcgatgtc ttcagtatgt gaaaatccaa ttcttctacc 240
ctacaggatc caacaggcaa tcgcagcagg catcttacct ttatcacctt tgttcttcca 300
acaatcatca gccctattac agcagttacc tttggtgcat ttattggcac aaaacatcaa 360
ggcacaacaa ctacaacaac tcgtgctagc aaaccttgct gcctactctc agcaacagca 420
gttacctttg gtgcatttgc tggcacaaaa catcaaggca caacaactac aacaac 476

<210> 13495
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-C10

<400> 13495

ttcagaaaca caccaagcga agctacctag caacgactta acaacaatgg ctaccaagat 60

attagccctc cttgcgcttc ttgccctttt tgtgagcgca acaaatgcgt tcattattcc 120

acaatgctca cttgctccta gtgccattat accacagttc ctccgaccag ttacttcaat 180

gggcttcgaa cacctagctg tgcaagccta caggctacaa caagcgcttg cggcgagcgt 240

cttacaacaa ccaattaacc aattgcaaca acaatccttg gcacatctaa ccatacaaac 300

catcgcaaca caacagcaac aacagttcct accagcactg agccaactag atgtggtgaa 360

ccctgtcgcc tacttgcaac agcaggtgct tgcaccaac ccacttgctc tggcaaacgt 420

agctgcata 429

<210> 13496

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-C11

<400> 13496

taagaactgt ttggtcattc agtgggtctgg agataatcct aatagccttg caggttttagc 60

tctgaatacc cctggtgatc ttgccattag ccttgggtact agtgatacag tattcgggat 120

aacaacagaa gctaaaccaa gccttgaagg acatgttttc cccaatcctg ttgagcctaa 180

tggttatatg gtcattgctat gctacaaaaa tggctccttg accagagaag atgtacgaaa 240

tctctgtgca gacaaatcat gggacgtttt taacagctat ctggagaaaa cgccccctct 300

aatggtggg aagttaggat tctactacta agaccatgaa atcctcccta cacttccagt 360

gggtttccat cggtagactg ttgaaaacct gaacgacgtc tcatcagacg ctctgttgga 420

gcgtgaa 427

<210> 13497

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-C5

<400> 13497

aattaccgac tcgacccacg catcctagcg cgattgcgga actgcttaaa cttcatttgt 60
gaagaggcat ctactgcag agggtagat gaaatatgaa ccaaccattg gtgttgaagt 120
tcatccgttg gatttcacca ctaactgttg taagatcacg ttctactgct gggataccgc 180
atggcaagag aagtttggtg gcctcatgga tggatactat atccatggcc agtgtgcat 240
catcatgttt gatgtaacct caaggcttac ttacaagaat gttcctacgt ggcataagga 300
cctgtgcaat gtctgtgaaa aca 323

<210> 13498
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-C8

<400> 13498

ttccttctcg ccgataagca gcagctcatc acctgaagga gagcagcccg gaggaggggg 60
agcaagcagc agccgtcggg ggaagatgtc gtacctgctg ccgcatctgc actcgggggtg 120
ggcgggtggac caggccatcc tcgccgagga ggagcgctc gtcatcatcc gcttcggcca 180
tgactgggac gagacctgca tgcagatgga tgaagtgcta gcagcagtag ctgagaccat 240
aaagaacttt gcggatcatc accttggtga catcacagag gtccttgatt tcaacaccat 300
gtatgagctg tacgaccctt cgacagtgat gttcttcttc cggaacaagc acatcatgat 360
tgatctcggg actggaaaca acaacaagat caactgggac ctgaaggtag agcaagagtt 420
catcgacatt gtggag 436

<210> 13499
<211> 136
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-C9

<400> 13499

tcggactctt gggaaaaaaaa aaaaaaaatt aaaaaaaaaa aaaaaaaaaa aagggcaaag 60
gggtctaaaag aatccaagct tacatacgcg tgcagtctac atcatatctc ttctatagtg 120
ccacctaatt tcaatt 136

<210> 13500
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-D1

<400> 13500

tcaagcgaag cgcactagca acgacctaac accaatggct accaagatat tagccctcct 60
tgcgcttctt gcccttttag tgagcgcaac aaatgcgttc attattccac agtgctcact 120
tgctcctagt gccagtattc cacagttcct cccaccagtt acttcaatgg gcttcgaaca 180
tccagccgtg caagcctaca ggctacaact agcgcttgcg gcgagcgcct tacaacaacc 240
aattgccc aa ttgcaacaac aatccttggc acatctaacc ctacaaacca ttgcaacgca 300
tcaacaacaa caacagtttc tgccatcact gagccaccta gccgtggtga accctgtcac 360
ctacttgcaa cagcagctgc ttgcatccaa cccacttgct ctggcgaacg tagctgcata 420
ccagcaacaa caacagctgc aacagtt 447

<210> 13501
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-E5

<400> 13501

cggaatgacc ggatcgaccc acgcagtagc tctaattggac gcgtacgctg gattgagtgc 60
accgtccaaa ctaacgctcg agcaccctgg caagtactct caattgctcg taacatcctc 120
catagaacgt atcggcggcc atggatcatca gactcggcca gaactctatg atgacgcgct 180
agacgaacct catgcagaac actgtcagtc cttgcgagca gcttgaactg atcatgaagg 240
ccgtcaacgt gcaatacaag aagcgcagtc acacgtatta tagaccgcct acaaaggcga 300
aatcagctga cattcctagg ctaggccatg cactgtcaga gtctacgagc tgttgcca 358

<210> 13502
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-E8

<400> 13502

tccccggtcga cccactcgtc cgttaattct cacccaaatt aagcaatggg ttgtactgtt 60
tcagtatcaa aagggtcatag cacaatgtaa agttcttaga tcaagatata tactgatggc 120
aataacctct ctatagaatc atcaaagtta cacctccaga tccttagtat cacatgccat 180
atgtatacca tttatgatgc tagaatgtac cgatataaac taccctacca ttgcgagaaa 240
acctaattat gaacctctgt atttacatta actgatttca atcaaataata tatctaattc 300
tatataatac tcaaattggt cata 324

<210> 13503

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-F10

<400> 13503

tgctctgcga gccttttgaa cctagtaaatt catgctacgt ctgctctgag accccacgtg 60
ttctggaggt taataactaag acaacaaagc tccgggaagt cattgaaaaa gttataaaaa 120
gcaaacttgg aatgaacctc cctttgataa tgggttggtgc cacgctagtt tttgaggatg 180
gtgaagattt ggaagaggat gaaattgcaa attatgcttt aaacctcgaa aaggctcttg 240
ctgaacttcc agctccagtt ctaaattggt caacacttac agtcgaggat tttcatcaag 300
aactaaaatg cagtatcaac atcaaacaca gggacgagtt tgatgaagaa aaggagcctg 360
acggaatggt tcttgctggg tggctctggc cagttgataa gcaaattacc agtaatgggtg 420
agaatagat 429

<210> 13504

<211> 147

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-G12

<400> 13504

gtcgcccacg cgttcgcccc cgcgtccgcc cacgcgtccg tgcggttggg caaggcttag 60

ttcgggtgttg tgtatggaac ggtcgtcact gagtcatgca cgatttggtg tccgtgttgt 120
 ttatgttcac cggtttgagg aactctc 147

<210> 13505
 <211> 347
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-H1

<400> 13505

aattcccggg tcgacccact cgtccgggga attaatggcg tcgtcgtcta gcatcagcca 60
 ctgacgcctc atcctcgcag ccgtggctct agtgtccgtg ctgcgaggctg ccagcgccag 120
 cgccgggacc tccttcgtgc cggagtgggc catcccgac aaccgctcc cgagctgccg 180
 ctggtacgtg acctgccgga cctgctgcat cgagccttgc ctcccgtggc cggagctgat 240
 gatgagatgc tgccgggagc tgacggacat cccggcgtag tgtctgcgca cggagctgaa 300
 catcctcatg gactgctcga ttacgtccgg cctggactcc catctat 347

<210> 13506
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-H10

<400> 13506

accacgcgt ccggcggttac ctcccaggtc atcatcatga accaccctgg ccagattggc 60
 aatggctatg ggccagttct ggactgccac acctcacaca ttgctgtcaa gtttgcgtgag 120
 ctcgttacca agattgatag gcgatccggc aaggagctgg agaaggagcc caaatttctc 180
 aagaacggtg atgctggtat ggtgaagatg gttcccacta agcccatggt ggtggagacc 240
 ttttctcagt atcctcctct tggctgattt gctgtccgtg acatgaggca aacggtggct 300
 gtcggagtca tcaagagtgt ggagaagaag gacccaactg gagccaaggt gacgaatgct 360
 gctgccaaga agaaatgac tatctgtctg gtgctgtgct tgctttgtgg ttacctcgtg 420
 gaagctaaaa atatctcgtc tt 442

<210> 13507
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-A2

<400> 13507

ccggatcgtc ccacgcgtcc ggtgcttggg gactgagagg tctagggctct gatatgcatg 60
cccgatgaca tcgcgctggg cggggacact cgcactgggtg aggcacgcgc taagatgagt 120
ttcgctgcc tggatgcttg tgctacgatg agcttgcttg ataagacgta gttgcttgag 180
tgcgcaatca tgtgcatgga aggacctacg gaaactgtct gcatggacat gccaacccg 240
ttcatacact gctgactatc acatgacacg aacgcttgga gtgtgtgctt accgcgttct 300
gatattccat gaccctgac acatgtctgc atcagttaca tgatacatgc gctatgctac 360
taacaaaccc tac 373

<210> 13508
<211> 111
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-A4

<400> 13508

attttcacca atactgtttt tcaagttatg tgtttatact ggttaacagg tgtttacgag 60
cattcgatc tatttaaaaa aaaataaaat aaaatgaata aaaaaaaaaat a 111

<210> 13509
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-A5

<400> 13509

tgctaaccct gagccggaag gatgggttgc tcgaccatc actcgcgacg ctgctcgcg 60
gtgtcacttc cagcatgcgc tcgacaccct gctacgtcgc gcatttgacc gacatacttg 120
gtctgtcgag tatcgctgtg tgggtctacca gcatagtcgc ggggtctacc tggaccgctg 180
ggaggcgact tgcttggtgc gctgcccga ggacagtctc cagggtgcag aggctgctc 240

agagcactat tctatttctg agcgggactc agctgaggca gccatgcaag atgctgcacg 300
 gcgtgcgctt tcgcactact gctcggtttt cggtggggca gctgatggtc ttgacctgaa 360
 gtataacccc cgccgtccat ccggcagcac 390

<210> 13510
 <211> 370
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-A7

<400> 13510

aaacacttgc gccgcggctg gctcacaggt aaggccgcca tggctctccg ttcgggctg 60
 tgcgcgaaag gcacgtggt ggacgcgcgc caccacatgc tgggccgtct ctctcgatc 120
 atagccaagg agctgctcaa tgggcagaag gtggctgctg tccgctgcga ggagatctgc 180
 atgtcgggcg gcctcgtecg tcagaagatg aagtacctcc gcttctccg caagcggatg 240
 aacaccaagc cgtcccacgg gcccatccac ttccgcgccc ccgccaagat cctgtggcgc 300
 accatccgcg ggatgattcc gcacaagacc aaaagggggg aggcggctct ggcgaggctc 360
 aagacgtacg 370

<210> 13511
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-A8

<400> 13511

atgcagttgc agagaaacat tcaagttatt ggcaacgaag agcccatttc tgcttggaag 60
 gaagcaaagc tacagttcta tgggtggcct gatggtgctg tcatgcagag aacgccatta 120
 atccattttg tacagacagg caacattgat ctgaggcca agaaagaagc tcaactcggc 180
 atgcttctg tttgaagcaa gggcaacaaa cttacccac cagatctctg tcgccaagc 240
 agggctagtg aataagctgt gtttctccc ggattgtcac tgctttata tttgtgcatt 300
 tattttgagg gaaacatttt gcccaaaaaa ggctgcagt gcacgttta aacaagtcatt 360
 ttgaaccaac tcttatgctg aaaactgtat gtgatactgc agaaggcaac aacta 416

<210> 13512
 <211> 142
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-060-Q1-K1-B11

 <400> 13512

 cggacgcgtg ggcgagttcg ctaaggctaa gtaggtccca taaggaatgt cttgaggtat 60
 atatatatat atctcgagaa ggagtttatg tttatcatga aacaagtga atacagtttc 120
 agcgctttcg tggtgcgcct ca 142

<210> 13513
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3059-060-Q1-K1-B12

 <400> 13513

 cccactcgtc cgcccacgcg ttcgcccacg cgcccgcca cgcgtccgta gaaagcagaa 60
 tagtgtacca acaatggtag ccaaaatatt ttgctcctt atgctccttg gtctttctgc 120
 aagtgtgct acgacgacca ttttcccgca atgctcaca gctcctatag cttctcttct 180
 tcccccatc ctctcaccag cggtgtcttc agtatgtgaa aaccaattc ttcaacccta 240
 caggatccaa caggcaatca cagcaggcat cttacctta tcacccttg tctccaaca 300
 atcatcagcc ctattacatc aattacctt ggtgcattta ttggcacana acatcagggc 360
 acaacaacta caacaactcg tgctagcaaa cttgctgcc tacgctcagc aacagcagtt 420
 acctttg 427

<210> 13514
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3059-060-Q1-K1-C5

 <400> 13514

tggacattca tccatcatca gtcaatgcat tcgtaaacca attcccgtta cctttcgggg 60
 tttacagtga gaaggtgaag actgctagca tttatgtaag ggactcgaca aatataatcag 120
 actatgccct tctactcttt ggtgggttcgc ttagtccgag caaaactgga gaaggcattg 180
 agatgcttgg gggttatctt catttctcgg ctccaaagcg taccatagag ttgattcaga 240
 aattaagagg tgaattggac aaactccttc agaaaaagat tgaggaacct ggactcgaca 300
 tcttttcgca aggaaagggg gttgtggcgg cagctgtaga actgctacac agtcaaaatt 360
 tcgaccatta gatgccaaat attacatgtt atcaggacaa gtttcacact 410

<210> 13515

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-C7

<400> 13515

ttattaggac ccgggggatt attaattata tattgatacc gtatcaatac atataaataa 60
 tacaccgaat cataacaagc acgtgtacat atatatggga cggttaaatt aaataaatat 120
 attggcctgc gtccccaagc acaaaataat caactacagt aacacgaccg gatcgatacg 180
 gtgctttttt tagctctgat tgaaatgaac gaacgtatga acgacgaact tccgccgcca 240
 atttggttta ttgccttccc tttgccgtga aacccctcgt acgtagcaca cgacggccgc 300
 gcgctcacia gccggtggtg aaggggatgg acgtgccggc gagccagagg tcgccgtcga 360
 tgaagttgcc aacggtg 377

<210> 13516

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-C8

<400> 13516

tggccacttc cagcgaagca ggtcggttag gagggcacga agaccgaaga ccgagcggtg 60
 cggtgactca gaacgggaac cggacaggac cccaaaatct catatcctta ctgatcgcac 120
 gcacgtgccc gtagacacgt cgactcttgc cagacgagca ccaactccgg cctctgctcc 180

tacaacgaga tcggatactc cacagacatg caccatgggtg ctgcggatct tatgctacgg 240
 ataactgatc tggaacccccg gctaacacat taactacaaa atcctcgggt tcataaaggg 300
 ttacattcgc acctttaatc ttgcttgcat tgaccacaga ggcacaccgt aacatgcagc 360
 gaggacctgt acgcttgaaa cgcacgacta ggacatatgc tggggaattg catatt 416

<210> 13517

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-D9

<400> 13517

accggttcgg aattccccgc tcgaccact cgtccgtcga cacatacacc caccattct 60
 cttttatgtc agactaccaa cacttgatgc cagtgcatta tccgtgatta ggctcattgt 120
 cttgcatgag aatgcacctc ctccgtccat tatctgagac atctgacttg atcctagtcg 180
 catccattac acattcccct cacagctgtt aaaacactga acaaagaaca cccaaatatg 240
 aacggctctt tgctacaaca cacatctgac tccagtttct atctacttca tcttatcctg 300
 attcagcatc actcctatgg acatttaacc atacaaacta tcttatcata cagctaacat 360
 aatatactac ctgactagac tcatata 387

<210> 13518

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-E5

<400> 13518

tctcaatctc cctagcaatc tctagcagca gatcctcgtg cgaagcaaag cgctagcccc 60
 cttcgtactg tcccgatggc ccgcacgaag cagacggcga ggaagtccac tggcggcaag 120
 gcgccaagga agcagctggc caccaaggcg gcgcgcaagt ctgccccggc gaccggcgga 180
 gtgaagaagc cccaccgttt ccgccccggc accgtcgcgc tccgggagat ccgcaagtac 240
 cagaagagca cggagctgct gatccgcaag ctgccgttcc agcgcttggg gcgtgagatc 300
 gccaggact tcaagaccga cctccgttcc cagagctccg ccgtcgcgcg gctgcaggag 360

gcgtccgagg cctacctcgt cgggctcttc gaggacacca acctctgcgc cattcacgcc 420

<210> 13519
<211> 73
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-F12

<400> 13519

tctagaggag gcaagcttac gcacgcgagc atgcgacgaa atcgctgttg tatcccgta 60

cctacattca att 73

<210> 13520
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-F7

<400> 13520

tgcttcgagt atacataaca cacgcttgat aaccattaa ctgcaaccta acatcagggg 60

tttaccagca tattataacc tgccttcctt ttctgaacgc tcaacggacc ggaccaattg 120

cttgattatt gcacaaagct taatttggtc aaggttcaag attacacaag ttcttcgaac 180

aagtacctca attggcttag aacaccaag tatgcaatgc tatatgctac aacaagcaat 240

tgcggcgagc gtgttacaac aaccaatttc ccagttgcaa caacaatcct tggcacatat 300

aactactac accatcgcaa cgcaacagca acaacaattc ctaccagcac tgagccacct 360

agccatggtg aacctgccg cctacttgca acagcagttg cttgcatcaa acccacttgc 420

<210> 13521
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-G11

<400> 13521

tgctgaagct atatcaccgg atgatgaaga atctctgttg caaggagaac gcgaaggtga 60

aatgatgatt gtggaggcct atgcagctct tgtgctcgcc tttctttcaa cggaaggtt 120

catagtgcct tatttcataa tcttttctta attagttata attttaatgt gagccccacc 180
ccactgccgt cagcttatga actgatgttt gctgccacag tatgaagggt cgaggagcca 240
tttctagttg ccttccggac aacaacttga aagttcttgt accagtgcta gagaaatctg 300
tgtcatttca tctgcagctg aacatgatga caagggaac gcattcagct gtgactgaag 360
tcatcgaaag a 371

<210> 13522

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-G12

<400> 13522

aattccccggg tcgaccact cgtccggacg ttcgaatggg ctaagatgct tgtgatgaaa 60
tacgggtcac ttgtgtctgt ggtctatattt gttggactgt ctatctacct tgtcgcgagc 120
ccgtccaaga gcagctcaaa ggcaagcaag aagagacgct gatctactta taggtcgcag 180
ttgacggtgt aactggtggt tttgcctgga ggaactcttg gtagtttgag ctgtgcgaaa 240
gcttttaagt atacatttac tcaccactcc atgaacggca acgaagtatt catcagttag 300
aaaagtgcac ctataattta ggttgcttat aactctctat ttgtcagaca tttaactcga 360
aggacctgtt actaggaaag ctaattttgc ttggaagaac attctgataa ataacagt 418

<210> 13523

<211> 441

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-060-Q1-K1-G3

<400> 13523

cggattcccc gtcgaccacg cgtncggtcg gttaggtaat tgggtccgac gacctaggac 60
gacatggcgg cggccaccac caggaggggc agcaagaagt cgtcgtcggc gtcgtcctcg 120
agctcggcgc agcgggcagc agctgccgcc ctgctcgtgg cgggtgttcgt cctggtggtg 180
ggcgcggcgg cagtgtgcga catgagcaac gagcagttca tgtcgtgccca gcccgcggcg 240
gccaaagacga cggacccgcc ggccgcgccg tcgcaggcgt gctgcgacgc gctggcagtg 300

gcggacctca agtgcctgtg cggctacaag aactcgccgt ggatgggct ctacaacatc 360
gaccacaagc gcgccatgga gctgccggcc aagtgcggcc tcgccacgcc gnccgactgc 420
tagccaagcc aagcaggaag g 441

<210> 13524
<211> 282
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-H11

<400> 13524

accggtttcg gattcccggg tcgaccact cgtccgtgca ctcgtacgca gactcgtgga 60
ctaaaattga accaagtcaa aaaaaaaaaa aagaaaaata aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaataaa aaaaaaaaaa aaaaaaaaaa ataataacaa ataaaaaaaaa 180
aaaaaaaaata attaagaaaa atctgaatac aaaatacaaa aaaaatacac atcagattaa 240
gatctgatgg atcatataga cactatgaat gacgaagaaa cc 282

<210> 13525
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-H3

<400> 13525

cacgcgtccg cccacgcgtc cgctctcttc tatcactgta ttttagatac catggccaag 60
tcgaccggga gggttgtatt ctacctggcc ctgctggtgg tgattgccac cactgagcac 120
atgcggttgc aggccggtag cggcgtgcga tcccatgccc gtggtggtgt gcgatacggc 180
gttcatgtac ggagcgaaac cctccgtatg atgtgctcc accctgcgtg cgcaggaggc 240
atgcttgtgc gtgtacgcca aagaccccaa gtttgcaaaa tacatcaaca accccagcac 300
cggcaaaacc ttaccttgc gcggcatatc catacccaaa tgctaagcaa gcgctctgcg 360
tcgtcgattc gattgctctt gctcttgtgg gtaacatatc cagcttatga atatattatg 420
t 421

<210> 13526
<211> 446
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-026-Q1-K1-G5

<400> 13526

caaagctggc aattgttctt gtgtgtggcg gttggtctct gggctggcct agtcattggt 60
ttggttactg agtactacac aagcaatgcc tacagccctg tacaagatgt tgctgattcc 120
tgcagaactg gaggagctac taatgtcatt tttgggcttg ctttgggtta caaatcagtc 180
attatcccaa tttttgctat tgcgtttagt atcttctca gcttcagcct tgctgccatg 240
tatggtgttg ctgtggctgc tcttgggaatg ctgagcacca ttgccacagg tcttgctatt 300
gatgcatatg gccctatcag tgataatgct ggaggaatag ctgaaatggc tgggatgagc 360
catangattc gtgagagaac tgatgctcta gatgctgcag gaaataccac ggctgcaatt 420
ggngagggtt ttgccattgg ctctgc 446

<210> 13527
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-G9

<400> 13527

ggctctgcag ccttggtttc ccttgcaacta tttggtgcgt ttgtaagccg ggctgctatc 60
tccactgttg atgttctgac tectaaagta ttcacgggc ttattgtcgg tgctatgctc 120
ccgtactggt tctcggaat gaccatgaag agtgtgggca gtgctgcgct caagatggtg 180
gaggaagtgc gtcggcagtt caacaacatc cctgggctca tggaaggcac cacaagcct 240
gactacgcaa cttgtgtcaa gatctcaacg gatgcatcca tcaaggagat gatcccccca 300
agtgtctttg ttatgctcac accactgac gttgggattc tatttggggg tgagaccctc 360
tctggagtcc ttgctggtgc ccttgtctct ggtgttcaga ttgccatttc tgcaccaaac 420
actggtggtg 430

<210> 13528

<211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-015-Q1-K1-G3

 <400> 13528

 ggatgagcca taggattcgt gagagaactg atgctctaga tgctgcagga aataccacgg 60
 ctgcaattgg gaagggtttt gccattggct ctgcagcctt ggtttccctt gcactatttg 120
 gtgcgtttgt aagccgggct gctatctcca ctgttgatgt tctgactcct aaagtattca 180
 tcgggcttat tgcggtgct atgctcccgt actggttctc ggcaatgacc atgaagagtg 240
 tgggcagtgc tgcgtcaag atggtggagg aagttcgtcg gcagttcaac aacatccctg 300
 ggctcatgga aggcaccaca cagcctgact acgcaacttg tgtcaagatc tcaacggatg 360
 catccatcaa ggagatgatc cccccagtg ctcttgttat gctcacacca ctgatcgttg 420
 ggatt 425

<210> 13529
 <211> 283
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-038-Q1-K1-B1

 <400> 13529

 ggctctgcag ccttggtttc ccttgcaacta tttggtgcgt ttgtaagccg ggctagtatc 60
 tccactgttg atgttctgac tcctaaagta ttcacgggc ttattgtcgg tgctatgctc 120
 ccgtactggt tctcggcaat gaccatgaag agtgtgggca gtgctgcgct caagatgggtg 180
 gaggaagtgc gtcggcagtt caacaacatc cctgggctca tggaaggcac caaaaagcct 240
 gactacgcaa cttgtgtcaa gatctcaacg gatgcatcca tca 283

<210> 13530
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-032-Q1-K1-D3

 <400> 13530

gccgcgttgg tgggtggtatt tataccaagg ctgctgatgt tgggtgctgac cttgtgggga 60
 aggtagaaaag aaacattcct gaggacgac caagataccc agctgttatt gctgacaatg 120
 ttggtgataa tgcttgagat attgctggaa tgggatcaga tctctttggc tcatatgctg 180
 aatcatcatg tgctgctctt gttgtggcct ctatctcgtc ttttggaatc aaccatgaat 240
 ttactccgat ggtgtaccct cttctcgtea gttctgttgg tattatagca tgtctcataa 300
 caacgctgtt tgcaactgat ttcttcgaga taaaggctgt ggatgaaata gagcctgctc 360
 tcaagaaaca gctcataatt tccacaattg tgatgaccat tggcattgca ctaatcagtt 420
 ggcttggctc 430

<210> 13531
 <211> 405
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-029-Q1-K1-E10
 <400> 13531

gagaattctt aattcatgag ttgtaaggag ggtcttatgg caccacaaac cggaactgga 60
 accaggggtg gatttaaagc tgggtggtaaa gggtataaat tggcttacta caccgccgag 120
 tacgaaacca aggatactga tatcttggca gcattccgag taactcctca gctcgggggtt 180
 ccgcctgaag aagcaggagc tgcagtagct gcggaatctt ctactggtac atggacaact 240
 gtttggactg atggacttac cagtcttgat cgttacaaag gacgatgcta tcacatcgag 300
 cccgttcctg gggacccaga tcaatatatc tgttatgtag cttatccatt agacctat 360
 gaagagggtt ctgttactaa catgtttact tccattgtgg gtaac 405

<210> 13532
 <211> 403
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-026-Q1-K1-C3
 <400> 13532

caaatgcacg gtttaataac gaaccgtgtt aacttaccat aacaacaact caattcctat 60
 cgagttccgt cctatogaat tcctatagta aaattcctat aggatagaac gtacacaggg 120

tgtacacatt atatatgaat gaaacatatt cattaactta agcatactcc tttttttatt 180
 taatgagttg atattaatta aatatctttt ttttttagat ttttgcaaag gtttcattta 240
 cgcctaatacc atatcgagta gaccctgtcg ttgtgagaat tcttaattca tgagttgtaa 300
 ggagggactt atgtcaccac aaacagaaac taaagcaagt gttggattta aagctggtgg 360
 taaagattat aaattggctt actacacccc ggaatacgaa acc 403

<210> 13533
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-A10

<400> 13533

caaatccacg gtttaataac gaaccgtggt aacttaccat aacaacaact caattcctat 60
 cgaggtcctt gctatcgaat tcctatagta aaattcctat aggatagaac gtacacaggg 120
 tgtacacatt atatatgaat gaaacatatt cattaactta agcatactcc tttttttatt 180
 taatgagttg atattaatta aatatctttt ttttttagatt tttgcaaagg tttcattttac 240
 gcctaatacca tatcgagtag accctgtcgt ttgtgagaatt cttaattcat gagttgtacg 300
 gagggactta tgtcaccaca aacagaaact aaagcaagtg tgggattaaa ggctgggggtt 360
 aaggatatta aattgactta ctacaccccg gagtacgaaa ccaaggatac tgatatcttg 420
 gcagcattcc gagtaact 438

<210> 13534
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-F8

<400> 13534

gagggactta tgtcaccaca aacagaaact aaagcaagtg ttggatttaa agctggtggt 60
 aaggattata aattgactta ctacaccccg gagtacgaaa ccaaggatac tgatatcttg 120
 gcagcattcc gagtaactcc tcagctctgg gttccgcctg aagaagcaag agctgcagta 180
 gctgcggaat cttctactgg tacatggaca actgtttgga ctgatggact taccagtctt 240

gatcggtaca aaggacgatg ctatcacatc gagcccgttc ctgggtaccc agatcaatat 300
atgtgttatg tagcttatcc attataccta tttgaagagg gttctgttac taacatgttt 360
actttcattg tgggtaacgt atttggtttc aaagccttac gcgctc 406

<210> 13535
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-H7

<400> 13535

ctcagctcgg ggttccgcct gaagaagcag gagctgcagt agctgcggaa tcttctactg 60
gtacatggac aactgtttgg actgatggac ttaccagtct tgatcggtac aaaggacgat 120
gctatcacat cgagcccggt cctggggacc cagatcaata tatctgttat gtagcttatc 180
cattagacct atttgaagag ggttctgtta ctaacatgtt tacttccatt gtgggtaacg 240
tatttggttt caaagcctta cgcgctctac gtttgaggga tctacgaatt cccctgctt 300
attcaaaaac tttccaaggt cgcctcacg gtatccaagt tgaaagggat aagttgaaca 360
agtacggtcg gtctttattg ggatgtacta tttaaacc aa attggga 407

<210> 13536
<211> 431
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-052-Q1-K1-B5

<400> 13536

gtaactcctc agctcggggg ttcgcctgaa gaagcaggag ctgcagtagc tgcggaatct 60
tctactggta catggacaac tgtttgact gatggactta ccagtcttga tcgttacaaa 120
ggacgatgct atcacatcga gcccgttcct ggggaccag atcaatatat ctgttatgta 180
gcttatccat tagacctatt tgaagagggt tctgatacta acatgtttac ttccattgtg 240
ggtaacgtat ttggtttcaa agccttacgc gctctacgtt tggaggatct acgaattccc 300
gctgcttatt caaaaacttt ccaaggtccg nctcacgga tccaagttga aagggataag 360
ttgaacaagt acggtcgtcc tttattggga tgtactatta aaccaaatt gggattatcc 420

gcaaaaaaatt a

431

<210> 13537

<211> 183

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-D4

<400> 13537

cgttcctggg gacccatata aatatacttg ttatgtagct tatccattag acctatttga 60

agagggttct attactaaca tatttacttt cattgtgggt aacgtattta gttgcaaagc 120

cttacacgct ctacttttgg aggatctacg aattccccct ggtgattcaa aaacttttca 180

agg 183

<210> 13538

<211> 163

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-A3

<400> 13538

ggtacatgga caactgtttg gactgatgga cttaccagtc ttgatcgta caaaggacga 60

tgctatcaca tcgagcccggt tcctggggac ccagatcaat atatctgta ttagagcttat 120

ccattagacc tatttgaaaa aggtttcttg tactaacatg ttt 163

<210> 13539

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-E12

<400> 13539

gtcaagggtca tctcctggta ctacaactag tggggctact cgcagagggt cgtcgacctc 60

gctgacatct gcgccaacca gtggaagtga agcgttgcatt tgtaatatga ctttgtaact 120

cctcaccctt cacagggtt tgggattcac cccgaaatga ctacttttcg gtgaaattca 180

cccgttatcg gcgagggcgt tttatttttc ttgtcaaatg atttcattgg 230

<210> 13540
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-A10

<400> 13540

ggttgagggtg gcttcttaca cacaatgtta tatttttccc gggactgata ataacggggc 60
tctggtggct tataaaattg catctcttgc tgaccttat gtcaatgatg cttttggcac 120
ggcacacaaa gctcatgctt caacccaagg agttaccaag tatttgaagc ctgctgttgc 180
cggcttcctc atgcataatg aacttgacta ccttgttgga actgttgcca acccaaagaa 240
gccatttgcc gctattgttg gtggatccaa ggtctcaagt aagattgggtg tcattgaatc 300
cttgctggcg aaagtcgata tccttatect tgggtgggtg atgatctaca cattttacaa 360
agcacaagga tattctgttg gaaaat 386

<210> 13541
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-012-Q1-K1-H11

<400> 13541

gttctgctcc tagagaatgt tagattctac aaggaggaag agaagaacga acctgagggtt 60
gctaagaagc tagcatctgt tgctgacctt tatgtcaatg atgcttttgg cacggcacac 120
agagctcatg cttcaaccga aggagttacc aagtatttga agcctgctgt tgccggcttc 180
ctcatgcaga aggaacttga ctaccttggt ggagctgttg ccaacccaaa gaagccattt 240
gccgctattg ttggtggatc caaggtctca agtaagattg gtgtcattga gtccttgctg 300
gcgaaggctg atatcctcat ccttggtgggt ggtatgatct acacatttta caaggcacia 360
ggatattctg ttggaaaatc tctcgtggaa gaggataaac tngagctcgc aacttctctt 420
attgagaac 429

<210> 13542

<211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-017-Q1-K1-G5

 <400> 13542

 caaggatatt ctgttgga aa atctctcgtg gaagaggata aacttgagct cgcaacttct 60
 cttattgaga aggcgaaggc aaaggggggt tctcttttgc ttcccactga tattgtagta 120
 gcggacaagt ttgcagctga tgctgagagc aagattgtcc ctgccactgc tatccctgat 180
 gactggatgg gtcttgatgt tggccctgat gccacaaaa cattcaacga agcattggac 240
 accaccaaga ctgttatttg gaacggcccc atgggagtgt ttgagttcga gaagtttgca 300
 gctggcactg aggcgattgc caagaagcta gctgagctta caaccacgaa ggggtgtcact 360
 accatcatcg gcggcggcga ctctgttgct gctgtcgaga aggctgggct ggccgacaag 420
 atgagccaca tttc 434

<210> 13543
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-053-Q1-K1-H6

 <400> 13543

 agtccccata tccgtcccc tacctctcca gcactctccc gtctccgtcg tctcgtctcc 60
 gtcctcacc tcgccagcca tgggcaagat caagatcgga atcaacgggt tcggaaggat 120
 cggcaggctc gtggccaggg tcgccctgca gagcgaggat gtcgagctcg tcgccgtcaa 180
 cgaccccttc atcaccacgg attacatgac gtacatgttc aagtacgaca ccgtgcacgg 240
 ccaatggaag cacagcgaca tcgccctcaa ggactccaag acgcttctct tcggcgagaa 300
 gccggtcacc gtctttggca tcaggaaccc cgaggagatc ccgtgggggtg aggctggtgc 360
 tgagtatgtc gtggagtcca ccggtgtctt cactg 395

<210> 13544
 <211> 384
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-D9

<400> 13544

agctcgatct actactacta ctagctgtta cacatactag ccatacctgcc aggcagcgtg 60
ccatggcgcc caccgtgatg atggcctcgt cggcaaccgc cgtcgccccg ttccagtgtc 120
tcaagtccgc cgccagcctc cccgtcgtcc gccgcagcac caggagcctc ggcaacgtca 180
gcaacggcgg aaggatccgg tgcattgcagg tgtggccggc ctacggcaac aagaagttcg 240
agacgtgtgc gtacctgccg ccgctgtcga cggacgacct gctgaagcat gtggactacc 300
tgctgccccaa cggctggata ccctgcctcg agtcagcatg ctcgggttcg tgtaccgcga 360
gaactccacc taccctgtgt acta 384

<210> 13545

<211> 250

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-H3

<400> 13545

gcaagctcga tctactacta ctactagctg gtacacatac tagccagcct gccagccagc 60
ttgcgatggc gcccaccgtg atgatggcct cgtcggcaac cgccgtcgcc ccgttccagg 120
gtctcaagtc cgccgccagc ctccccgtcg cccgccgcag caccaggagc ctcggcaacg 180
tcagcaacgg cggaaggatc cgggtgatgc aggtgtggcc gggctacggc aaccagaagt 240
tcgagacgct 250

<210> 13546

<211> 316

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-034-Q1-K1-B7

<400> 13546

ctactagctg gtacacatac tagccagtct gccagccagc ttgccatggc gcccaccgtg 60
atgatggcct cgtcggcaac cgccgtcgcc ccgttccagg gtctcaagtc cgccgccagc 120
ctccccgtcg cccgccgcag caccaggagc ctcggcaacg tcagcaacgg cggaaggatc 180

cgggtgcatgc aagtgtggcc ggcctacggc aacaagaagt tcgagacgct gtcgtacctg 240
 ccgncgctgt cgacggacga cctgctgaaa caggtggact acctgctgcg caacggctgg 300
 ataccctgcc tcgagt 316

<210> 13547
 <211> 368
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-028-Q1-K1-D3

 <400> 13547

caagcaagca gcgagtacat acatactagg cagccaggca gccatggcgc ccaccgtgat 60
 gagtggcctg gtcggccacc gccgtcgctt ccgttcagg ggctcaagtc caccgccagc 120
 ctccccatcg cccgccgctc ctccagaagc ctcggaacg tcagcaacgg cggaaggatc 180
 cgggtgcatgc aggtgtggcc ggcctactgc aacaagaagt tcgagacgct gtcgtacctg 240
 ccgncgctgt cgacggacga cctgctgaag cangtggact acctgctgcg caacggctgg 300
 ataccctgcc tcgagttcag caaggtcggc ttcgtgtacc gcgagaacct tcaactccccg 360
 tgctacta 368

<210> 13548
 <211> 382
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-041-Q1-K1-G7

 <400> 13548

cggagctgcg aggcaagcgc ccgctgctgc ccccggacct tcccagacc gacgagggcg 60
 ccgacgtcat cggcgcgttc cacgtcctcg cggagctccc gcccgacagc ttcggccccct 120
 acatcatctc catggcgacg gccccctcgg acgtgctcgc cgtggagctc ctgcagcgcg 180
 agtgcggcgt gcgccagccg ctgcccgctg tgccgctgtt cgagaggctg gccgacctgc 240
 agtcggcgcc cgcgtccgtg gagcgctct tctcggtgga ctggtacatg gaccggatca 300
 agggcaagca gcaagtcatg gtcggctact ccgactccgg caaggacgcc ggccgncctgt 360

ccgcggcgtg gcagctgtac ag

382

<210> 13549

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-G11

<400> 13549

gggaggagca cctgtgcttc cagactctgc atcgcttcac ggccgccacg ctggagcacg 60

gcatgcaccc gccggtctct cccaagcccg agtggcgcaa gctcatggac gagatggcgg 120

tcgtggccac ggaggagtac cgctcggtcg tcgtcaagga gccgcgcttc gtcgagtact 180

tcagatcggc tacaccggag accgagtacg ggaggatgaa catcggcagc cggccagcca 240

agaggaggcc cggcggcggc atcacgaccc t 271

<210> 13550

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-C11

<400> 13550

aagagatgta tgcttgctgg ccagaatgat ggctgcaaac ttgtacatcg atcagattga 60

agagctgatg tttgagctct ctatgtggcg ctgcaacgat gagcttcgtg ttcgtgccga 120

agagctccac agttcgtctg gttccaaagt taccaagtat tacatagaat tctggaagca 180

aattcctcca aacgagccct accgggtgat actaggccat gtaagggaca agctgtacaa 240

cacacgcgag cgtgctcgcc atctgctggc ttctggagtt tctgaaattt cagcggaatc 300

gtcatttacc agtatcgaag agttccttga gccacttgag ctgtgctaca aatcactgtg 360

tgactgcggc gacaaggcca tctcggacgg gagcctcctg g 401

<210> 13551

<211> 434

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-052-Q1-K1-B6

<400> 13551

gctgtcggag ctgcgaggca agcgcccgct gctgcccccg gaccttcccc agaccgacga 60
gatcgccgac gtcacgggcg cgttccacgt cctcgcggag ctcccgcccc acagcttcgg 120
cccctacatc atctccatgg cgacggcccc ctcggacgtg ctgcgcgtag agctcctgca 180
gcgcgagtgc ggcgtgcgcc agccgctgcc cgtggtgccg ctgttcgaga ggctggccga 240
cctgcagtcg gcgcccgcgt ccgtggagcg cctcttctcg gtggactggt acatggaccg 300
gatcaagggc aagcagcagg tcatggtcgg ctactccgac tccggcaagg acgccggccg 360
nctgtccgcg gcgtggcagc tgtacagggc gcangaggag atggcgcang tggccaagcg 420
ctacngcgtc aagc 434

<210> 13552

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-012-Q1-K1-B10

<400> 13552

gaaatttcag cggaatcgtc atttaccagt atcgaagagt tccttgagcc acttgaggtg 60
tgctacaaat cactgtgtga ctgcggcgac aaggccatcg cggacgggag cctcctggac 120
ctcctgcgcc aggtgttcac gttcgggctc tccctggtga agctggacat ccggcaggag 180
tcggagcggc acaccgacgt gatcgacgcc atcaccacgc acctcggcat cgggtcgtac 240
cgcgagtggc ccgaggacaa gaagcaagaa tggctgctgt ccgagctgcg aagcaagcgc 300
ccgtgctgc ccccggaact tccccagacc gacgagatcg ncgacgtcat cggcgcgttc 360
cacgtntctg cggagcttcc gcccagacgc ttcggccctt acatcatctc catggcgacg 420
gccccctcgg acgtgc 436

<210> 13553

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-G7

<400> 13553

ccgggtgata ctaggcatg taagggacaa gctgtacaac acacgcgagc gtgctcgcca 60

tctgggggct tctggagttt ctgaaatttc agcggaatcg tcatttacca gtatcgaaga 120

gttccttgag ccaattgagc tgtgctacaa atcactgtgt gactgcggcg acaaggccat 180

cgcggaacggg agcctcctgg acctcctgcg ccaggtgttc acgttcgggc tctccctggt 240

gaagctggac atccggcagg agtcggagcg gcacaccgac gtgatcgacg ccatcaccac 300

gcacctcggc atcgggtcgt accgcgagtg gcccgaggac aagaggcagg agtggctgct 360

gtcggagctg caaggcaagc gcccgttggt gcccccgga 399

<210> 13554

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-E11

<400> 13554

cttgatggg tggtgaccgc gatggaaatc caagagttac cccggagggtg acgggagatg 60

tatgcttgcg ggccagaatg atggctgcaa acttgtagat cgatcagatt gaagagctga 120

tgtttgagct ctctatgtgg cgctgcaacg atgagcttcg cgttcgtgcc gaagagctcc 180

acagttcgtc tggttccaaa gttaccaagt attacataga attctggaag caaatcctc 240

caaacgagcc ctaccgggtg atactaggcc atgtaaggga caagctgtac aacacacgcy 300

agcgtgctcg ccatctgctg gcacatggag tttctgaaat ttcagcgga tctcattta 360

ccagtatcga agagttcctt gagccacttg agctgtgcta caaatcactg tgtgactgcy 420

gcgac 425

<210> 13555

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-F9

<400> 13555

gagttccttg agccacttga gctgtgctac aaatcactgt gtgactgcgg cgacaaggcc 60

atcgcgagcg ggagcctcct ggacctcctg cgccaggtgt tcacgttcgg gctctccctg 120
gtgaagctgg acatccggca ggagtcggag cggcacaccg acgtgatcga cgccatcacc 180
acgcacctcg gcacggggtc gtaccgagag tggtcgagg acaagaggca ggagtggctg 240
ctgtcggagc tgcgaggcaa ggcggcgctg ctgcccccg accttccccca gaccgacgag 300
atcgccgagc tcacggcggc gttccacgtc ctgcgggagc tcccgcccg cagcttcggc 360
ccctacatca tctccatggc gacggcccc tggagctgc tcgccgtaga gctcctgcag 420
cgcgag 426

<210> 13556
<211> 461
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-021-Q1-K1-E1
<400> 13556

cgagtacttc agatcggcta caccggagac cgagtacggg aggatgaaca tcggcagccg 60
gccggccaag aggaggcccc gggcgggcat cagaccctg cgcgccatcc cctggatctt 120
ctcgtggact cagaccaggt tccaccttcc cgtgtggctg ggagtcggcg ccgccttcaa 180
gttcgccatc gacaaggacg tcaggaactt ccaggtcctc aaagagatgt acaacgagtg 240
gccattcttc aaggtcaacc tggaacctgc tgagatggtt ttcgccaagg gagacccccg 300
cattgccggc ttgtatgacg agctgcttgt ggcggaagaa ctcaagccct ttgggaagca 360
gctcagggac aaatacgtgg agacacagca gttctnctn cagatcgctg ggcacaagga 420
tattcttgaa agcgatccat tcctgaagca agggcttgtg c 461

<210> 13557
<211> 251
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-009-Q1-K1-C3
<400> 13557

ggcatcgggt cgtaccgca gtggtcctag gacaagaggc atgagtggct gctgtcggag 60

ctgcgaggca agcgcccgt gctgcccccg gacctttccc agaccgacta gatcgccgac 120
gtcatcgggc cgttccacgt cctttctgag ctcccgcccc acagcttctg .cccctacatc 180
atctccatgg cgacgggtccc ctcggaagta ctcgccgtag agcttctctg agcgcgagtg 240
cggcgtgcgc c 251

<210> 13558
<211> 413
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-014-Q1-K1-D4

<400> 13558

gcagcacgtc gtgccgtcc aaccatctcg cttccgtgct tagcttccc cgcgcccggg 60
gcgtcgacca aggtccccgg ccccgggcgag aagcaccact ccatcgacgc gcagctccgt 120
cagctggtcc caggcaaggt ctccgaggac gacaagctca tcgagtacga tgcgtgctc 180
gtcgaccgct tcctcaacat ccttcaggac ctccacgggc ctagccttcg cgaatttgct 240
caggagtgtc acgaggtatc ggccgactac gagggcaaag gagacacgac gaagctgggc 300
gagctcgggc ccaagctcac ggnngctggc cctgccgacg ccatcctcgt ggcgagctcc 360
atcctgcaca tgctcaacct cgccaacctg gccgaggagg tgcagatcgc gca 413

<210> 13559
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-H6

<400> 13559

cgcagcagca cgagcagcac gtcgtgccgc tccaaccatc tcgcttccgt gcttaggttc 60
ccgccgcgcc atggcgctga ccaaggctcc cggccccggc gagaagcacc actccatcga 120
cgcgcagctc cgtcagctgg tcccaggcaa ggtctccgag gacgacaagc tcacgagta 180
cgatgcgctg ctgctgacc gcttctcaa catccttcag gacctccacg ggccatgcct 240
tcgcgaattt gtccaggagt gctacgaggt atcggccgac tacgagggca aaggagacac 300
gacgaagctg ggcgagctcg gcgccaagct cacggggctg gccctgccg acgccatcct 360

cgtaggcgagc tccatcctgc acatgctc

388

<210> 13560

<211> 449

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-011-Q1-K1-G8

<400> 13560

gcagcagcac gagcagcacg tcgtgccgct ccaaccatct cgcttccgtg cttagctgcc 60

cgccgcgcca tggcgtcgac caaggctccc ggccccggcg agaagcacca ctccatcgac 120

gcgcagctcc gtcagctggt cccaggcaag gtctccgagg acgacaagct catcgagtac 180

gatgcgctgc tcgtcgaccg ctctctcaac atccttcagg acctccacgg gcctagcctt 240

cgcgaaatttg tccaggagtg ctacgaggta tcggccgact acgagggcaa aggagacacg 300

acgaagctgg gcgagctcgg cgccaagctc acggggctgg cccctgccga cgccatcctc 360

gtggcgagct ccatactgca catgctcaac ctcgccaacc tggccgagga ggtgcagatc 420

gcgcaccgnc gncgcaacag caaactcaa 449

<210> 13561

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-E2

<400> 13561

cgcagcagca cgagcagcac gtcgtgccgc tccaaccatc tcgcttccgt gcttagcttc 60

ccgccgcgcc atggcgtcga ccaaggctcc cgccccggcg gagaagcacc actccatcga 120

cgcgagctc cgtcagctgg tcccaggcaa ggtctccgag gacgacaagc tcacgagta 180

cgatgcgctg ctcgtcgacc gcttctctcaa catccttcag gacctccacg ggctagcct 240

tcgcgaattt gtccaggagt gctacgaggt atcgcccgac tacgagggca aaggagacac 300

gacgaagctg ggcgagctcg gcgccaagct cacggggctg gcccctgccg acgccatcct 360

cgtaggcgagc tccatcctgc acatgctcaa cctcgccaac ctggccgagg aggtgcagat 420

<210> 13562
 <211> 304
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-026-Q1-K1-H9

<400> 13562
 gaggtatcgg ccgactacga gggcaaagga gacacgacga agctgggcca gctcggcgcc 60
 aagctcacgg ggctggcccc tgccgacgcc atcctcgtgg cgagctccat cctgcacatg 120
 ctcaacctcg ccaacctggc cgaggaggtg cagatcgcg accgncgccg caacagcaaa 180
 ctcaagaaag gtggcttcgc cgacgaaggc tccgccacca ccgagtccga catcgaggag 240
 acgctcaagc gcctcgtgtc cgaggtcggc aagtcccccg aggaggtgtt cgaggcgctc 300
 aaga 304

<210> 13563
 <211> 274
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-020-Q1-K1-F11

<400> 13563
 catcgcagca gcacgagcag cagccgtgc cgctccaacc gtctcgcttc cctgcttagc 60
 ttccggccgc gccatggcgt cgaccaaggc acccgcccc gccgagaagc accactccat 120
 cgacgcgcag ctccgtcagc tgggtcccagg caaggtctcc gaggacgaca agctcatcga 180
 gtacgatgcg ctgctcgtcg accgcttctt caacatcctc caggacctcc acgggcccag 240
 ccttcgcgaa tttgtccagg agtgctacga ggctc 274

<210> 13564
 <211> 440
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-007-Q1-K1-C8

<400> 13564

agcacgagca gcacgccgtg ccgctccaac cgtctcgctt ccctgcttag cttcccgcgc 60

cgccatggcg tcgaccaagg caccgcggcc cggcgagaag caccactcca tcgacgcgca 120

gctccgtcag ctgggtcccag gcaaggtctc cgaggacgac aagctcatcg agtacgatgc 180

gctgctcgtc gaccgcttcc tcaacatcct ccaggacctc cacgggcca gccttcgcga 240

atttgctcag gagggtctac aggtctcggc cgactacgag ggcaaaggag acacgacgaa 300

gctgggcgag ctgggcgcca agctcacggg gctggcggcc gccgacgcca tctcgtggc 360

gagctccatc ctgcacatgc tcaacctcgc caacctggcc gaggaggtgc agatcgcgca 420

ccgncgncgc aacagcaagc 440

<210> 13565

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-E5

<400> 13565

cgcgaggcaa gcgcccgtg ctgcccccg accttccccca gaccgacgag atcgccgacg 60

tcatggggcg gttccacgtc ctgcgggagc tcccgcccga cagcttcggc ccctacatca 120

tctccatggc gactgcccc tgggacgtgc tgcgcgtgga gctcctgcag cgcgagtgcg 180

gcgtgcgcca gccgctgccc gtgggtgccg tgttcgagag gctggccgac ctgcagtcgg 240

cgcccgcgtc cgtggagcgc ctct 264

<210> 13566

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-D6

<400> 13566

gttccttgag ccacttgagc tgtgctacaa atcactgtgt gactgcggcg acaaggccat 60

cgcgagcggg agcctcctgg acctactgcg ccagggtgtc acgttcgggc tctccctggc 120

gaagctggac atccggcagg agtcggagcg gcacaccgac gtgatcgacg ccatcaccac 180

gcacctcggc atcgggtcgt accgcgagtg gtccgaagac aagaggcagg agtggctgct 240
 gtcggagctg cgaggcaagc gcccgtgct gccccggac cttaccaga cgcagagat 300
 cggcgacgtc atcagcgcgt tccacgtcct cgcggagctc cgcgccgaca gcttcggggc 360
 ctacatgac tgcattggcg cggccccctc ggacgtgctc ggcgtagagc tcttcgagcg 420
 c 421

<210> 13567
 <211> 293
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-E7

<400> 13567

ccaagggctt gaaatgtgag tatgctttcc ttgcgagat tgtcatccat gtcagcgct 60
 tgcgtcaaca tctacaaaca caaccagggt ctcttccttt tgatgagatc ctgttctgca 120
 acattgggaa tctcaatcc cttggtcagc aacctgtgac gttcttcagg gaggttcttg 180
 ctctttgtga tcatccatgc ctcttgaaa aagaggaaac caaatcattg ttcagtgtg 240
 atgctatttc tcgagcaaag cagattcttg caactattcc tggacgggca aca 293

<210> 13568
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-D2

<400> 13568

cggacgcgtg ggcggacgcg tgggcgaagc cgcactgtga gagagggacg cggccggttg 60
 tctcggctt gtacgaatc ctccgtcgc tgcgaagctg atccctcgtg ttcgccatgg 120
 cccccagcgt cgcgtggaa aacctcaacc ccaaggtctt gaaatgtgag tatgcagtcc 180
 gtggcgagat tgtcatccat gtcagcgct tgcagcaaca actacaaaca caaccagggt 240
 ctcttccttt tgatgagatc ctgttctgca acattgggaa tctcaatcc cttggtcagc 300
 aacctgtgac gttcttcagg gaggttcttg ctctttgtga tcatccatgc ctcttgaaa 360
 aagaggaaac caaatcattg ttcagtgtg atgctatttc tcgagcatag cagattcttg 420

caactattcc

430

<210> 13569

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-C11

<400> 13569

gtttcgctgc cccgattcgc cacgaagccg cactgtgaga gagggacgcg gcccgttgct 60

ctcggttctg acgcaatcct tccgtcgtcg cgaagctgat ccctcgtgtt cgccatggcc 120

cccagcgtcg ccgtggaaaa cctcaacccc aaggtcttga aatgtgagta tgcagtccgt 180

ggcgagattg tcattccatgc tcagcgcttg cagcaacaac taaaaacaca accagggctct 240

cttccttttg atgagatcct gttctgcaac attgggaatc ctcaatccct tggtcagcaa 300

cctgtgacgt tcttcagggg ggttcttgct ctttgtgatc atccatgcct cttggaaaaa 360

gaggaaacca aatcattggt cagtgtgat gctatttctc gagctaagca gattcttgca 420

acta 424

<210> 13570

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-F11

<400> 13570

gtgtggtaaa agaggagggt acatggagat tactggcttc agtgtccgg taagagagca 60

gatctacaag gtagcttcag tgaacctgtg ctccaatatc actggtcaaa tccttgcgag 120

cctcgtcatg aatccaccaa aggtctgcta ttatggcatt atgccctgat tagaattagg 180

aaacgcaaaa ctgtccagtt aaaacccatt gcctcattct tcagggtggg gacgaatcat 240

atgcttcta caaggcagag aaagatggaa tccttcagtc tttagctcgc cgtgcaaagg 300

ttcgcttgtg tgcatttcta ctatagattt gagtaacttc ctaaacadat tcaaggtctt 360

ttttttggtc gttttacagg cactggaaga tgcattcaac acgcttgagg gattttcatg 420

taacaag 427

<210> 13571
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-015-Q1-K1-B3

 <400> 13571
 gtgtgtttgt gtgtgtgtgt gtgtgcgcg cgcgcgcgcg gtaggtggtg gcgctgtgcc 60
 aggctccgtt cctgctcgac gatccccacg tcggcctcat gttcccggcg gacgccatcg 120
 ctagggccaa gcactatctc gccatggcgc ccggcgggtct aggtgcgtag agtgactccc 180
 gcggcatccc gggaatcagg aaggaagttg ccgacttcat ccacaagcgt gatggatatt 240
 ccagtgatcc ggaactcatt tacctcacag actgtgccag caaaggtgtg atgcagatcc 300
 tgaacaccat cattagaaac gagatggacg ggatcttggc ccctgttcct cagtaccac 360
 tttattccgc caccatttcc ctctatggtg gttctctggt cccgtactac ttggaagaag 420
 aggctaactg gagcc 435

<210> 13572
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-017-Q1-K1-F12

 <400> 13572
 atcctgttct gcaacattgg gaatcctcaa tcccttggtc agcaacctgt gacgttcttc 60
 agggagggtt ttgctctttg tgatcatcca tgctcttgg aaaaagagga aaccaaata 120
 ttgttcagt ctgatgctat ttctcgagca aagcagattc ttgcaactat tcttggacgg 180
 gcaacaggtg catatagtca cagttaggg atcaaaggat tgcgtgatgc aattgctgct 240
 gggatcacct cagtgacgg attccctgca aatgcagatg acattttcat tacagacgga 300
 gcaagtcttg nggtccacat gatgatgcaa ttactgatta ggaatgagaa agatggcatt 360
 ctgtgccccaa ttcctcagta ccccttgtag tcggcctcca tagctcttca tgggtggagct 420
 cttg 424

<210> 13573
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-C1

<400> 13573

gttggtgcct ataggacaga agagctgcag ccatacgtgc tcaatgtagt caagaaggct 60
gaaaatctta tgttggagaa aggagaaaac aaagagtatc ttcccattga aggttttagcc 120
gcgtttaaca aagcaacagc agagctattg cttggagctg ataaccctgt tattaatcaa 180
ggactggttg ctacacttca gtctctctcg ggcactggat cactgctct cgctgcagca 240
ttcatacaaa gatactttcc tgaaactaaa gtgctgatat cgtcgctac ctggggtaac 300
cacaagaata tcttcaat 318

<210> 13574
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-G5

<400> 13574

ctcccctgct ccggtccgg ctccggctct gccatgggcc tttcaacagt ttagtcgcgc 60
ggccggaccg cgctctgtgc cgccccctct cggccgctgc cgctctgccc agccccgccg 120
cccgcgccgg gccagctcg ccaccgtccg gtgctccgtc gacgccacca agcaggcgca 180
ggatggcggtg gcgacggcgg tcgcgacgga ggccgacg cgcggaagg agtgcttcgg 240
ggtcttctgc accacctacg acctcaaggc ggaggacaag accaagtcgt ggaagaagct 300
agtgaatgtt gctgtgtcag gcgcgcccg gatgatatca aatcacctgc tgttcaaact 360
cgcttctggt gaagttttcg gacaagacca accaatagca cttaaactac tc 412

<210> 13575
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-E6

<400> 13575

ccaaggtctt gaaatgtgag tatgcagtcc gtggcgagat tgtcatccat gctcagcgct 60
 tgcagcaaca actacaaaca caaccagggt ctcttccttt tgatgagatc ctgttctgca 120
 acattgggaa tcctcaatcc cttggtcagc aacctgtgac gttcttcagg gaggttcttg 180
 ctctttgtga tcatccatgc ctcttgga aaagaagaac caaatcattg ttcagtgtctg 240
 atgcctattc tcgagccaag caaattcttg gcactattcc tggaccggcc acaagtgcct 300
 atagtcacaa gcagggtatt aaaagattgc ctgattcaat tgctgcttgg atcaccttac 360
 gtgacggatt ccctgcaa at gccaatgaca ttttcattac agaccgagca agtcctgggg 420
 tccacatgat gatgcaatta ctga 444

<210> 13576
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-C12

<400> 13576

ctctaccgtc ctatgcatcc ggtacgcca gcatccatcc actactgaca tgctgggggt 60
 ccggtgcgg ctccggcatg ggcctttcaa cagtttactc cgcggccgga ccgcgcctcg 120
 tgccggtccc tctcgaccgc tgccgctctg cccagccccg gcgcccgcgc cgagccccgg 180
 tcgccaccgt tcggtgtctc gtcgacgcca ccaagcaagc gcatgatggc gtggcagact 240
 gcggtcgcga ctgaggcgcc gtagtcgagg aaggagtgtc ctgggggtcta ctgcaccacc 300
 tacgacctca aggccgagga caagaccaag tcgcggaaga agctagttaa tgttgctgag 360
 tcaggcgcgg ccgggatgat atcaaata 388

<210> 13577
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-F9

<400> 13577

gcgagcgcg cgtgtccacc actccctctc ctctcccgct ctatccatcc ggcacgccga 60
 gcggccatcc actcctcccc tgctccggct ccggtccgg ctctgccatg ggcctttcaa 120

cagtttactc cccggccgga ccgcgcctcg tgccggcccc tctcggccgc tgccgctctg 180
cccagccccg ccgcccgcgc cgggcccagc tcgccaccgt ccggtgctcc gtcgacgcca 240
ccaagcaggc gcaggatggc gtggcgacgg cggtcgacgac ggaggcgcca gcgtcgcgga 300
aggagtgtt cggggctctt tgcaccacct acgacctcaa ggcggaggac aagaccaagt 360
cgtggaagaa gctagtgaat gttgctgtgt caggcgcggc cgggatgata tcaaatcacc 420
tgctgttcaa actcgcttct ggtg 444

<210> 13578
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-H4

<400> 13578

gtgaacgttc tcgtcatcta ttgacatctg gaatttctga gattccagag gaggcaactt 60
ttactaacgt tgaacagttt ctggaacctc ttgagctatg ttatagatca ttatgtgctt 120
gtggtgacaa acctatagct gacggaagtc ttcttgattt cttgcgtcaa gtatcaactt 180
ttggtcttgc acttgtgaag cttgacatca ggcaggaatc tgatcgacac acagatgtcc 240
ttgattcgat aacgacacat cttggaattg gtccttatgc tgaatggtct gaagagaaac 300
gccaggattg gttggtgtct gaacttgagg gcaaacg 337

<210> 13579
<211> 466
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-A12

<400> 13579

gcagatcgcg caccgccgcc gcaacagcaa actcaagaaa ggtggcttcg ccgacgaagg 60
ctcggccacc accgagtccg acatcgagga gacgtcaag cgcctcgtgt ccgaggtcgg 120
caagtcccc gaggaggtgt tcgaggcgt caagaaccag accgtcgacc tcgtcttcac 180
cgcgcacccc acgcagtccg cccgccgctc gtccttcgag aaaaacgcga ggatccggaa 240
ttgtctgacc cagctgaatc ccaaggacat cactgacgac gacaagcagg agctcgatga 300

ggctctgcag agagagatcc aagcagcctt cagaactgat gaaatcagga gggcacaacc 360
 caccacacag gacgaaatgc gctatgggat gagctacatc catgagactg tatggaaggg 420
 cgtgcctaag ttcttgccgc gtgtggatac agccctgaag aatatc 466

<210> 13580
 <211> 399
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-045-Q1-K1-H10

<400> 13580

gcagctcagg tgcttgtctg aaccctgaaa ggggagcagg aaacgtattc cagcccggcc 60
 tgggcgaaga aggccacaga ggaaggctct ccaccgtgtt ctccacaaat gccaccttc 120
 aagttaggcc tagctttgcg gcccctttct gtagcaaact taaccagctc gccactccc 180
 ctctgttcag gacctcgaag gggatcatgtt gagatgccct gcgcgaattg aaaagcttca 240
 aaggtaaacc cgatgcttgg cttacgtggg tgcangcttg gtatatcgta ccctgaattg 300
 acaganatgc aagccctggc catttttgaa gctgctatag caatgaccaa ccagggtggt 360
 caagtgttcc cagagataat ggctcctctt gttggaaca 399

<210> 13581
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-C1

<400> 13581

cctctcacct ttctgctgta ctactcgcc acacacaccc cctctccagc tccgttggag 60
 ctccggacag cagcaggcgc ggggcgggtca cgtagtaagc agctctcggc tccctctccc 120
 cttgctccat atgatcgtgc aaccatcga gctacgcgcg tggactgcct tccctgggtc 180
 ggcgcaggag gggatcggaa ggatggcggc gtcggtttcc agggccatct gcgttcagaa 240
 gccggggtca aaatgcacca gggacaggga agcgacctcc ttgcgccgcc gatcggtcgc 300
 agcgccgagg ccccgccacg ccaaagccgc cggcgtcatc cgctccgact ccggcgcggg 360

acggggccag cattgctcgc cgctgagggc cgctcgttgac gccgcgccga tacagacg 418

<210> 13582

<211> 411

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-015-Q1-K1-G11

<400> 13582

ccttttcgct gtactcactc gccacacaca cccctctcc agctccgttg gagctccgga 60

cagcagcagg cgcgggggcg tcacgtagta agcagctctc ggctccctct ccccttgctc 120

catatgatcg tgcaacccat cgagctacgc gcgtggactg ccttccctgg gtcggcgag 180

gaggggatcg gaaggatgac ggcacggtt tccagggcca tctgcgtaca gaagccgggc 240

tcaaaatgca ccagggacag ggaagcgacc tccttcgccc gccgatcggc cgcagcgccg 300

aggccccgc acgcaaagc cgccggcgtc atccgctccg actccggcgc gggacggngc 360

cagcattgct cgccgctgag ggccgctcgtt gacgccgcgc cgatacagac g 411

<210> 13583

<211> 427

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-010-Q1-K1-H5

<400> 13583

gctgtactca ctgccacac acacccctc tccagctccg ttggagctcc ggacagcagc 60

aggcgcgggg cggtcacgta gtaagcagct ctgggtccc tctccccttg ctccatatga 120

tcgtgcaacc catcgagcta cgcgcggtga ctgccttccc tgggtcggcg caggagggga 180

tcggaaggat ggcgggcgctg gtttccaggg ccatctgcgt tcagaagccg ggctcaaaat 240

gcaccaggga cagggaagcg acctccttcg cccgccgatc ggctgcagcg ccgaggcccc 300

cgcacgcaa agccgccggc gtcacccgct ccgactccg cgcgggacgg ngccagcatt 360

gctcgccgct gagggccgct gttgacgccg cgccgataca gacgacaaa aagagggtgt 420

tccactt 427

<210> 13584
 <211> 380
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-045-Q1-K1-C7

 <400> 13584

 gcggcggcgg tttccagggc catctgcgtc cagaaaccgg gtcctcaaatg cagcagggac 60
 aggggaagcga cctccttcgc ccgccgaacg gtcgcggcgc cgaggccccc gcgcgcctaaa 120
 gccgccggcg tcatccgctc cgactccggc gcggggacggg gccagcagtg ctgcgccgtg 180
 agggccgctg ttgacgccgc gtcgatacag acgacaaaa agagcaaatg gcgcctcagt 240
 ctcccgcgcg caagctacaa cggttcaagg tccggtgctg cggcggctga gccgtctacc 300
 gtgggagaca ccttggaacg ggaggagggc ggccggcacag aggcaggcgc ttccggtgat 360
 gagtcatcca accggaagca 380

<210> 13585
 <211> 419
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-027-Q1-K1-E7

 <400> 13585

 ggccggcggcg gtttccaggg ccactctgct ccagaaaccg ggctccaaat gcagcagggg 60
 cagggaagcgc acctccttcg ccgccgaac ggtcgcggcg ccgaggcccc gcgcgcctaa 120
 agccgccggc gtcactccgt ccgactccgg cgcgggacgg gccagcagtg gtcgccgct 180
 gagggccgct gttgacgccg cgtcgataca gacgacaaaa aagagcaaat ggccctcag 240
 tctcccgcgc gcaagctaca acggttcagg gtccggtgct gcggcggctg agccgtctac 300
 cgtgggagac accttggaac gggaggaggg cggcggcaca gaggcaggcg cttcggctga 360
 tgagtcatcc aaccggaagc agccgncnc tgttgacccc aagattgaga aggagctca 419

<210> 13586
 <211> 293
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-H3

<400> 13586

gggctgaaga acgacaccga cctcacggcc tctgacctca aagagctcgt gggtcagtag 60
aaggaggtct acctctcagc caagggagag ccattcccct cagaccccaa gaagcagctg 120
gagctagcag tgctggctgt gttcaactcg tgggagagcc ccagggccaa gaagtacagg 180
agcatcaacc agatcactgg cctcaggggc accgccgtga acgtgcagtg catggtgttc 240
ggcaacatgg ggaacacttc tggcaccggc gtgctcttca ccaggaaccc caa 293

<210> 13587

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-F2

<400> 13587

gtctcttgcc gtatcagagg tctgacttcg taggcatttt ccgtgctatg gatggactcc 60
cggggaccat ccgactcctg gaccctcccc tccacgagtt ccttccagaa gggaacatcg 120
aggacattgt aagtgaatta tgtgctgaga cgggagccaa ccaggacgat gccctcgcgc 180
gaattgaaaa gctttcagaa gtaaaccgga tgcttggctt ccgtgggtgc aggcttggtg 240
tatcgtaccc tgaattgaca gagatgctag gcccgccat tgttgaagct gctatagcaa 300
tgaccaacca ggggtgttcaa gtgt 324

<210> 13588

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-D4

<400> 13588

ttcagtctga gaaccgcgtc gcgtacattg atcaagtgat tgccactggt ctgccagcct 60
gacctgtggc tgctgtgggc caggttgtgt tcaactgctga ggatgctgaa ccatggcatt 120
cccaagggaa agctgctatt ctggtaaggc cggataccag ccctgatgac gtaggtggca 180
tgcacgctgc tgtggagatt cttacagaga ggcgtgagca tgacttacca cgctgctgcg 240

gtcgcacgtg gctggtggaa atgctgcgtc tagacatgct caggcattcg cgtaaacgat 300
gcggaagaagc tcgtgacgat cggaggccat gtgctgcgcg aatgtgagtg gctgtcactg 360
aatgaataga ctggtgaggt gatccctgtg aagcat 396

<210> 13589

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-H3

<400> 13589

ctcccgtga ccatgcgact cctggaccct cccctccacg agttccttcc agaaggaac 60
attgaggaca ttgtaagtga attatgtgct gagacgggag ccaaccagga ggatgccctc 120
gcgcaattg aaaagctttc agaagtaaac ccgatgcttg gcttacgtgg gtgcaggctt 180
ggtatatcgt accctgaatt gacagagatg caagcccggg ccatttttga agctgctata 240
gcaatgacca accaggggtg tcaagtgttc ccagagataa tggttcctct tgttgaaca 300
ccacaggaac tggggcatca agtgactctt atccgccaag ttgctgagaa agtggtcgcc 360
aatgtgggca agactatcgg gtaca 385

<210> 13590

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-D9

<400> 13590

cgctgaatgg gtcgactggt gaggtgatcc ttggaaagca gccgctttcc ccaccagccc 60
ttagtggcga tctgggaact ttcatggcct gggtagatga tgtagaaaag ctcaaggctc 120
tggctaacgc cgataccctt gatgatgcat tgactgcgcg aaacaatggg gcacaaggaa 180
ttggattatg ccggacagag cacatgttct ttgcttcaga cgagaggatt aaggctgtca 240
ggcagatgat tatggctccc acgcttgagc tgaggcagca ggcgctcgac cgtctcttgc 300
cgtatcagag gtctgacttc gaaggcattt tccgtgctat ggatggactc ccggtgacca 360
tccgactcct ggacccatcc ctccacgagt t 391

<210> 13591
 <211> 416
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-006-Q1-K1-C10

 <400> 13591

aagataagga gtgtctctcc ttgcccattc tcctctcttt cagctaagtc cctgccccgt 60
 gtctttttct tacattcagg tcctcgcagc tcctctcttt tttcttggtt ctttcgatct 120
 gcgagccgta caagtccagt actcttcttt ccctcaagga actcttgtag ccggccccctc 180
 tggtttctct gaattcttgt tccccgggtc ctacttctgt ccccgcgtag atccgtccgt 240
 ccgaggagca caccgtgccc acccccatgt ttaccaccca gttcctctga cggacgcccgt 300
 gctccgatga agctgagcgt gctccgtatc cgccgttccc actccttctc cgtcgcctta 360
 ctttactggg tctacgtctt ctcatgaacg cattggccct cttcaactgc tgatcc 416

<210> 13592
 <211> 436
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-046-Q1-K1-B2

 <400> 13592

ggagtgtctc tcctttgcca tcctcctctc ttccagctaa gtccttgccc cctctcgtgt 60
 tcttacaggc aggtcctcgc agctcctctc ttttttcttg tttctttcga tctgcgagcc 120
 gtccaagtcc agtactcttc tttccctcaa ggaactcttg cagccggccc ctctggtttc 180
 ctogaattct tgttccccgg tcctcctctc tgtccccgcg tagatccgtc cgtccgagga 240
 gcacaccgtc cccacccccca tgtttaccca ccagttcttc tgacggccgc cgtgctccga 300
 tgaagctgag cgtgctccgt atccgcccgt cccactcctt ctccgtcgc ttcctctact 360
 ggttctacgt cttctcatga acgcatcgcc cctctccaac tgctgaccc tgcgcgtctc 420
 tcctctctctc tttctc 436

<210> 13593
 <211> 360

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-001-Q1-K2-A2

 <400> 13593

 cgaccgggtc gctgcctccg atcctcttgc tgcccagcac cctggctact tcagccaggt 60
 agccaggtga gaccgactag ctcgatctag ctgctgaggc gtggccatgg agggcgacga 120
 cgacggcccc gagtggatga tggaggtggg cggcgcgggc gccacagga agggaaaagg 180
 cggcgcgctg gacaagaaca agaagcgctt cagcgaggag cagatcaagt ctctcgagtc 240
 catgttcgcc acgcagacca agctggagcc gcgccagaag ctgcagctgg cgcgggagct 300
 cggcctgcag ccgcgccagg tcgccatctg gttccagaac aagcgcgcg cgtggaagtc 360

<210> 13594
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-002-Q1-K2-G9

 <400> 13594

 gctgcctccg atcctcttgc tgcccagcac cctggctact tcagccagct agccaggttg 60
 agaccgacta gctcgatcta gctgctgagg cgtggccatg gagggcgacg acgacggccc 120
 ggagtggatg atggaggtgg gcgcgcgggc cgccacaggg aagggaag gcgcgcgct 180
 ggacaagaac aagaagcgct tcagcgagga gcagatcaag tctctcgagt ccatgttcgc 240
 cacgcagacc aagctggagc cgcgccagaa gctgcagctg gcgcgggagc tcggcctgca 300
 gccgcgccag gtcgccatct ggttccagaa caagcgcgcg cgctggaagt ccaagcagct 360
 ggagcgcgac tactccgcgc tccgcgacga ctacgacgcg ctctctgca gctacgag 418

<210> 13595
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-002-Q1-K2-G10

 <400> 13595

 gctgcctccg atcctcttgc tgcccagcac cctggctact tcagccagct agccaggttg 60

agaccgacta gctcgatcta gctgctgagg cgtggccatg gagggcgacg acgacggccc 120
 ggagtggatg atggaggtgg gcggcgcggg cgccacaggg aagggaaaag gcggcgcgct 180
 ggacaagaac aagaagcgct tcagcgagga gcagatcaag tctctcgagt ccatgttcgc 240
 cacgcagacc aagctggagc cgcgccagaa gctgcagctg gcgcgggagc tcggcctgca 300
 gccgcgccag gtcgccatct ggttccagaa caagcgcgcg cgctggaagt ccaagcagct 360
 ggagcgcgac tactccgcgc tccgcgacga ctacgacgcg ctctcttgca gctacgagtc 420
 cctcaagagg gagagcacac gctt 444

<210> 13596
 <211> 377
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-053-Q1-K1-G5

 <400> 13596

ctcttctctg tactagcttt cttcttcttc ctctcttcc tcctcccaa cagactggat 60
 ttcatcaaga taatcctgaa actggagcca acaagcagac agagaaagaa gagcaagaag 120
 accggctccc agccgataca aggtaggagt gagcagcgtt agatcagttt tcatcacagg 180
 atcgatatgg tgacagtgag agaggagact cgcaaggggc catggacaga gcaagaggac 240
 ctgcaactgg gctcaaccgg acaggcaaga gctgccggct gcgctgggtc aactacctnc 300
 accctggcct caagcgtggg cgcattgtct cccatgaaga gcgactcatc ctagagcttc 360
 acgctcggtg gggaaac 377

<210> 13597
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-041-Q1-K1-C5

 <400> 13597

gcgatcaatg atcttcttat acaggttact gctaattctg ttcggttagt cagttgggcc 60
 tcccgggagt tagtgaatca atggaatgca ccagcaggat tctcagtcaa tgttgcttca 120

gctaatagcc gccaggttct gttggcaacc ggtggtggcc atcttgttta cctggaaatt 180
 agggatgcta aacttggtga agtgaagcat gctcagctag aacatgagat ttcttgtctt 240
 gatttgaacc caattgggga gaatccacaa tatagttccc tagctgctgg tgggatgtgg 300
 acagatataa gtgtagaat attttcaactt ccagatcttg aattgataag gaaggaaaat 360
 ttgggtggag aaattgttcc tcggtctggt ctgctgtgca ccttggaagg ggtttcgtat 420
 ttgc 424

<210> 13598
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-C5

<400> 13598
 ctccacgcga gcggacgaca ctaagcggcc atagccgcac gttgggatcc tctccgctac 60
 gcctgtcgat ggtctccgcc agcgcgccgc cgctgcaggc ccagtccgac gcggccggct 120
 cggcggagga agtgagcaag aaggtgcgga agccgtacac aatcaccaag taccggaaga 180
 gctggacgga tcaggagcac gacaagttgc tcgaggccct gcagctcttt gatcgtgact 240
 ggaagaagat cgaggctgtc gatggctcca agactgtcat gcagattcat cttacatcca 300
 taggaactct ggcataaacg tgccgtgttg ttcattgggt catagttaca tcccacaagc 360
 tgatgcttca tcaatggtga aagatttatg tgctggaaca ccaggttcaa acaatttctg 420
 ctcaagtagt actg 434

<210> 13599
 <211> 260
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-F3

<400> 13599
 agcatgccta tcctctcccc gcccgcccggt gccgcgccg cggcttcctt tcctctcccc 60
 agcggagatg aatgttgaaa agctcaagaa gatggcaggt gctgtgcgca ccggggggaa 120
 gggtagcgtg cgcaggaaga agaaggcagt ccacaagact acaaccacag atgacaaaacg 180

gcttcaaagc accttgaaaa gaataggagt gaacagcatt cctgggtattg aagaggtcaa 240
catcttttaaa ggatgatggt 260

<210> 13600
<211> 428
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-010-Q1-K1-A4

<400> 13600

ctcttggggtc angagagggt gcattcactt ttattcttga tgatcctgca ggaaacagct 60
ttattgagaa tccgcatgct ccgttattag atcctttact atctgtgaga ttctacgaaa 120
gaactcgtga acaacaagca gcacttggtt ttcttgctga accaccaaaa gaacaacctg 180
gagaggctgt attgcctgct tcagcagtgg aatccaattc tgatgggttg caaagcgtgc 240
cccatggctc agttggagct gttgcaggtc gtcgtgctat agctcaggga aacctgatg 300
aagttgctgc agcatttgtt agatattcag caccagaaga ggttgatact ttaccatcaa 360
catgtggagc ctgtggaaca gaatgcgtca cacgtttctt tgctacaaaa atcccatatt 420
tccggggag 428

<210> 13601
<211> 260
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-C3

<400> 13601

acgctgcagc cgcagttgcc gcacgcggga acttgagct gctactcgcg actgctctgg 60
tcggttcccc cgtaggattc gttcacaatg gcccggtgt atgtcggcaa cttggatgca 120
cgcgtgactt ccggggaact cgaagatgag ttccgtgtgt ttggagttct gcgaagtgtt 180
cgggtcgcac gcaaaccacc tgggttttgc tttattgatt ttgactacag gatggatgca 240
gaggatgcta ttcgtgatct 260

<210> 13602
<211> 260

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-054-Q1-K1-G8

 <400> 13602

 aagggttcag cccaatgcat ctccgtgtta accggcctcc ttatgaagac agtgaatgccg 60
 gtgggtcgtca tgtggcagtg caaggagcgc cacttctagg tcaaggccta catgtacttc 120
 gtaagatacc gtagacgaga ttgtctaate accattgctg aagatcaagg gttatcgtta 180
 tcaataaagg tatctgcaag gatgggtgatg atcataggtc taagactgct aaggatggac 240
 atgccatagg ccaatagctt 260

<210> 13603
 <211> 387
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-054-Q1-K1-G9

 <400> 13603

 gcaaaaaaaaa acatcttcac caggtgatga aattaagggt tcagaacaag caaaaatcga 60
 atcgattgca gagatcgaaa cagtgggagt caaggagaat gtcattgctg atcataagga 120
 aacaggtaac aacagtggcg taagtataca tgcgcctcta ttagttgaat ctggacaaaa 180
 ggcacacct ggagttgaat tgcgtggtat tgaggtgat gctcatgttt tggaacaagc 240
 aaagatggtt tcagctctag aaccagactc tactccagaa gtttgtgctg acaagttaga 300
 accttctggt gctgatgatg ttggaatgat tgttgtccag gaggtgctt ctgttgatga 360
 tcacaataga gcacaagggtg gtgaggc 387

<210> 13604
 <211> 452
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-054-Q1-K1-H1

 <400> 13604

 cgcccgcccg cgctatccac tcgtctctcc gtccgcatgg ccacttatct gaacgcaccg 60
 ccggcagcca ccacgacgac tgcaagctgc cgccatgcct tctccggtgg cagccttcgt 120

ctactccggc cgagccgacc gacgctgcac gtgacgtgcc aagccgccgt ctcctcctcc 180
tcctcctccc agccgccgtc gtccccgtcc aggaggtcag cctgcctcct cggcatcgcg 240
tgcgccgtcc tgctccgccc acgtgccgcc tccgcggccg aaactgacga agagccggcc 300
aacaacggct ggtggctgac cgagttcccc ttgcccgtgc ccaagatcgt caacaaggag 360
atcaacaacg cggagacggg cacgcgtccc ttctcaaga acggcatcta catggcggac 420
atcgggccca gcttcgcggc gcacgcgtac cg 452

<210> 13605

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-054-Q1-K1-H10

<400> 13605

ggcccctttg cctccgctcc accgtcgcag gtcccctttg cctccgctca accgtctcag 60
agtcctttta cgtctcctcc acagtctcag ggcccattcg ctgctggacc gtcgcctacg 120
ggcccctttg ctgctacacc agcacctttt cgctctccgc tgtcatccct tgccgagcca 180
caatctccca cgcaaggcgc tttgcctaca ccaccaacat atgcgaggcc gctgtcacia 240
ccactacagg cgcattggga ttaccctggg gcaccacctt cgaaccctca atttccgatg 300
tcaaggccag catttcaaca acctgtgcag aatatgccac cttctccaat agggtcagct 360
gccacatttg gtaaccaggc agcttatcaa agtggcgggc ctncagttgg aggcacactt 420
cagagtttag tgg 433

<210> 13606

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-H11

<400> 13606

caagggcctt gtcccgtcgc ccggctccaa caacgagtcg tgggtgccagg gcctggacgg 60
cctggcgctc cgcgaggccg actactacca gcagggcgcg cggttcgcca agtggcgcac 120

cgtcgtcagc atccctaacg gcccctccga gctcgccgtc aaggaggccg cgtgggggct 180
 cgcacgctac gccgccatct cacaggacaa cgggcttggtg ccgatcgtgg agccggagat 240
 cctgctggac ggcgagcacg gcatcgagcg cacgttcgag gtggcgacaga aggtgtggtc 300
 cgaaaccttc tacgccatgg cggagaacaa cgtcatgttc gagggcatcc tgctgaagcc 360
 gtccatgggtg acgcccggcg cggaagccaa ggacagggcc ac 402

<210> 13607
 <211> 362
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-H12

<400> 13607

ctagggcctt gtaccgctcg ccggctccta caacgagtcg aggtgccagg gcctggacgg 60
 actgacgtca cgcgaggccg actactacca gcagggtctg cggttcgcca agtgggtcac 120
 cgccgtcagc atgcctaacg gtccctacga gctcaccgtc aaggaagccg cgtggagggt 180
 cgaacgctac tccggcatat cacaggacaa cgggcttggtt ccgatcgtgg agccggagat 240
 cctgctggac tgcgagcacg gcatcgaacg cacattcgag gtgtcgacaca aagtgtggtc 300
 cgaaaccttc tacgccatgg ccgtgaacaa cgtgatgttc cagggcatac tgctgaagcc 360
 gt 362

<210> 13608
 <211> 387
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-H2

<400> 13608

agcccgcccg cgctatccac tcttctcttc gtccgcatgg ccacttatct gaacgcagcg 60
 acggctgtca ccacgacgac tgcgagctgc cgccatgcct tctccggtgg cagccttcgt 120
 ctactccggc cgagccgacc gacgctgcac gtgacgtgcc aagccgccgt ctctgatgc 180
 ttctgctacc agccgccgtc ataccgctcc aggaagtcag cctgcctgct cggcatcgcg 240
 tgcgcagtcc tgctgcgccc acgtgccgtc tactgcgccc aaactgacta agagccggcc 300

aacaacggct ggcggctgac cgagttcccc ttgcccgtgc ccaagatcgt caacatggag 360
atcaactacg cggagactgg cacgcgc 387

<210> 13609
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-H3

<400> 13609

atgcaccccc ctatctattg ttacgtacg tgctgggcca ttaacggttc atggatcatg 60
atggtgttcg gcttttggcc gcagttctga ggtacggtat cttggtgatc gacctcgacc 120
ctgacaccaa gcattttctt aagcttgccct gaggttagcg ataagctagg tagcagcact 180
gatggatgca tgcattttgt acgtttcaat atggacagca gcacttccat gggtcaccac 240
gtttatcgca gtagccgcca ttcttagcag ggaagttgta ctcttggcaa actttgccgc 300
agtgaaatgg cctgcagtat tcacgatacct atggaaagca gaatggtggc cgtaacctgc 360
ggacgacgcc gtctgccaaa agaaacgttt gtcacccgt tatatatata tagttgatta 420
gtacatacat atatatatat atatatat 448

<210> 13610
<211> 417
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-054-Q1-K1-H4

<400> 13610

gcgaagaagg aagccggtta gggtttccac ctctttccc ctctctcct tcagcgtcga 60
ccgctggcca cacctcgat atcttcccc tcggaccgg aggcgagcag cagcctccag 120
cgctgccac gcctgccgt ctggttattg gtcttcattc ctgcaggagg attcgccatg 180
tctgacatgg agtccgtcgc agctcttatg aactcgacaa gtcgaagat acagcagctt 240
caggaggcat ttgctgagct tgagagccag agcacggttt ccatgaacct caagtggag 300
cagcttgaag accactttcg tggctcttgaa cagtccctca agataaagtt tgacgagcta 360
aaagagcatg agaaggagtt ccaggagact gtcgcanaat cagagcagat tctggag 417

<210> 13611
 <211> 382
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-H6

<400> 13611

cgacccacgc gtacgcgaga agacgagtgt taagtgaacc tgttactttc ggtgccactg 60
 gctgcgtacc tgagtgtgag cgagtgatcg agctagctga gctccgatcc tggctagcta 120
 ggatacgcgg catacctcaa gtacctttca caagtttacg agtgacagca acaagagatc 180
 gatggcctct gccaccgtgc tcaagtcctc cttccttccc aagaagtccg aatggggcgc 240
 caccagtgcg tgccgcccgt cccaggccga ccaccgtctc catggtcgca cgcgctgcg 300
 tctacgccga tgagctcgag aagaccgcta aaacgatcgc gtcgtcatcg cggggcattc 360
 tggccatgga cgagtcgaac gc 382

<210> 13612
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-G7

<400> 13612

ccatccgcac ctctctccat ctccctgctc ctccgcctcc ttcttgatcc agccaagcca 60
 gggatcgcca tgtcggactc ggaggagcac cacttcgaat cgaaggccga cgccggagcg 120
 tccaagacct acccgcagca ggctggcacc gtccgtaaga acggcttcat cgtcatcaag 180
 aaccgaccct gcaaggttgt ggaggtttct acctcaaaga ctggtaagca tggccatgcc 240
 aaatgccact ttgttgccat agacatattc aacgggaaaa agcttgaaga tattgctgct 300
 tcatcacaca actgtgatat tccgcatgtg aaccgtactg agtaccagct gatcgatata 360
 tcagaggatg gatttgtgag ctttcttact tcagatggca aactaagga tgatcttaga 420
 ctcccaactg atgag 435

<210> 13613
 <211> 427

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-054-Q1-K1-E9

<400> 13613

ggacaggggc accctggccg gcgtgctccg cccggaggac gaggtggtgg accgcgctct 60
 tgcagatgcg cccgacacgg agctcaccgg cctcgccaag aactacttca gcagcacgaa 120
 ccaagcgctg ctgctctgcc tctcactccg tcgggcgctc cgccggggcg ggctcgctgta 180
 cgggcccata acggacctcc tcgcgctcat cccgcagtcg ccgcagctcg ccacgccaca 240
 ctgcgactgt gcgttcgacg ccttctctct gtctgaccaa atgcccaatc cgttcccggc 300
 gcccgcgggc gggttccagt gcatgcaacg aagtttctct ggggtcaaaa accacctcga 360
 tcttcgtcta ctcaagtgtcc gacgcatgcg ccgttggtct cgctgtgcca agcgcggtatc 420
 angtatc 427

<210> 13614
 <211> 421
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-054-Q1-K1-F1

<400> 13614

ccccgcccgc ctccgcgccc cgctcggtct cgccgtgcag cagagggagg gtgacacgga 60
 ctccgtgcaa cggatccgcg gaacggtggc gcttggcagg tcctcagaga ctgagactgc 120
 gacggtggcg gtggggatgg ccgacctggt gaacctctgg aggctggtgg agggcgcgga 180
 cggcggcccc gcctggacca agatgatgga gaagtcgctg cccaccatga cctaccgggc 240
 gtggaggagg gacgcccaga cggggccttc gcagtaccag agcagcagca tcttcgagaa 300
 cgccagtcca gaggaggtga gggacttctt cggggacgac gagttccgga tgtccaacag 360
 gtgggacgac atgtctatct accacatgac cctggaggag tgccggacca ctgggacgat 420
 g 421

<210> 13615
 <211> 413
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-054-Q1-K1-F11

<400> 13615

gcaggctttg acggggtggc gaggatgaag gcgattatga tgaggaggac atcggaccac 60

tgctcagctt cgatgagatg tttcacctcc acgcggcgtg cggcgtggcg cttccaggcg 120

acatgatgga ggcaaaccgg tgccgaggat cccacagtcg tggacatcgc cgggacgcag 180

ctgatgccga aggaggaggc gctccagctt tgcaccggct gtgtccactt ctagacttcc 240

ttgcctcgcc tatcacctcc aggaagtgat acccaccttg gaagaatttg gggatgagga 300

tcccacgtcg caacgttcca tagtgcccct gccccaccg atgtccacgg ccgtcgcgcc 360

cgggcatggc agtccgctcc cacgcgatgc aagtccatcc ncaccgtcgc agc 413

<210> 13616

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-F2

<400> 13616

gtaaatttga gaccttggtta ttgatactta cgaagtttgt tatattaatg cacagtaaata 60

tgaaactaga ttagaattta aataattaag tgttataata aacgagatat ttttttaata 120

aaatattatt acaaatataa ttaaaaattc atttatttgt aaaaatatca gaaacacaaa 180

ttgattcatc tattttctag agtctagtac ataaacaaaa ctttttttaa agtgttgatc 240

ttttatgtca taataagtat tggatgctgt tctcgcacta gaccaggttt gaaagttcta 300

cggattttat cgtgttacta catccttaat ttcttactag gtgag 345

<210> 13617

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-F3

<400> 13617

cccacgcgtc cggcaaacgc gccattgtct cgcactcgta gtcttgactc ttgcgtgctt 60

ccctcgtctt ctcggacgtt ccgttccatc gccatggcgg accagcttag cgaggagcag 120
attgccgagt tcaaggaagc tttcagcctc ttcgacaagg acggcgacgg ttgcatcaca 180
accaatgagc tcggaaccgt gatgcggtct ctcgggcata accccaccga ggcgagctg 240
caggacatga tcgccgaggt ggacagcaac ggcagcggca ccatcgacga gcacgagttc 300
ctgggcctga tggctcgaa gatgagggac gcggagtctg atgaggagct cagggaggcg 360
ttccgctgt tcgacaagga ccagaacggg gtgatctacg tggacgagct ccggcacgtg 420
atgaccaacc tcggtgagaa 440

<210> 13618
<211> 316
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-054-Q1-K1-F4

<400> 13618

gtcccccccc tcctgcattt caaaatatgc gtatctccct gcgcttttcc tagccctttg 60
tcatccaagg aaacaataaa caaccggcgc ttttacaccc ccgccaagaa caggagcaac 120
aacaacaagg ctccctcgaa caatccattc tcatccatgg cgaagctcat gaacaagttg 180
gtcgattcgt tcgagcacga cgagataccg gacgtcggct gcgtgcgcgc cgtgctggcc 240
gagctcgtac tcaccttctt cttcgtcttc accggcgtct tcgncgtcat ggccgtcgga 300
tccgacggga agcccc 316

<210> 13619
<211> 412
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-054-Q1-K1-F6

<400> 13619

atctcacaga cccaattcgc gagttctctc tactctgccg acatggcgct ctctgtggag 60
aagacctgct ctggacggga gtacaaggtc atggatctct agcaggctga ctaaggccga 120
ctagagattg agctggccga ggtcgaaatg cccggcctca tggcgtgccg cgccgagttc 180

ggccccgtcca agcccttcgc cggcgctagg atctcgggggt ctctccacat gaccatccag 240
accgtcgtcc tcategagac cctcaccgcg ctcggcgcgcg aggtccgctg gtgctcctgc 300
aacatctttt tcacgcagga ccacgccgtc gtcgtcatcg cgcgcgactc ggccgncgtg 360
ttcgctggg aggtggagac cctcgaggag tactggtggt gcaccgagcg ct 412

<210> 13620
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-F9

<400> 13620

attgcgacta gtggcttaca cgagtgggca ctgacaaaag ccgaggtcat agctgttctg 60
tatgctggaa ttgtcgcac ttgctgagc tactcaatca tgacatgggc gaacaaagtt 120
cttggacctt ctctggtcgc cctctacaat ccaactgcaac cagccttttc caccgccctc 180
tcaactgttt tccttggcga cccagtttac ctcggaagcg ttattggggg agtctccata 240
attgctggtc tctatctggt catctgggct cgctacaatc aagggcagcg ggcgccctacg 300
gatgcttggt tggaccctct tattattgtg gataatccaa gaatccccaa gacacaagaa 360
agtcccttcg tgtagatcct caaaaaatgt gtcgattatc cacacatttg tatagggtggt 420
ctacagtata c 431

<210> 13621
<211> 370
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-054-Q1-K1-G2

<400> 13621

aaccatacca aacacgcccc tattaatacc cgctcggcgcg tggttctgca atcgaacgca 60
ggccgcagtc gcgtgcggaa ctagagctcc ttcagagaag tgccgtgcca gtgccaccgc 120
cggccgcac atcgttccgt cccctgaggt gttcagtaac ttcttccgat ccatattatg 180
gcttcaaagc agcagcagaa acagttcctg gatgaagcca tgatcaagca gccgacaccg 240

gaggaggacc gtgagggcgc atggccctca gtgctgacga tcatcggctt tggattccta 300
accttcaact cattcatggc tgtgtacagg tcaaattggag atgttggatc tatnctcttg 360
gggtcttctc 370

<210> 13622
<211> 249
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-G3

<400> 13622

gattccccgc tcgactccac tcgtctcgaa ctcacgac tactcacata cttagtttct 60
cacactacac gacttctaac atgggggagc ctgctaagat ctgagagtct agtgcattct 120
catacaagcg tcactacatc aggaccactt agtatcttat aatagatgga ctattgtctg 180
aatacatgct aatccatata cattactgcc actgctcagc ttgcacagca tatacctaaa 240
gtaatgctc 249

<210> 13623
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-G4

<400> 13623

aaagagctta cttacggtgg ctggggataa agctatttat cgtctcaaga ccagggtttac 60
accaatctca aaggcaaccg agctcatgca gcgaacactg gttgggcat gctggcgctg 120
attgatgcag gacaggccca gagagatccc gcgcctctac accgagcagc aagggttttg 180
ataaacttgc agtcagagga cggagaattt cccagcaag agatcatagg agtgttcaac 240
aagaactgca tgatcagtta ctgccagtac aggaacacct tcccgatctg ggctctggga 300
gagtaccggt gccgagtcct gggagctggc aagctgtaat gacccggcct ggccccgtca 360
actcgactga aaaggcgtct tgtgtctcgg tgttcttggg gttctatctt ggcacg 416

<210> 13624
<211> 437
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-G5

<400> 13624

catttatgct tatggttttg agaagccatc tgcaattcag cagagaggaa ttgttccctt 60
 ctgcaagggt cttgatgtca ttcagcaagc acaatctggt acaggaaaga cagcaacctt 120
 ctgttctggg atcttgacgc agctggacta tggcctggtt gaatgccagg ccctgggcct 180
 tgctcccacc cgtgagcttg cacagcaa atcgagaaagtc atgctcgcg ttggtgatta 240
 ccttggtggt aagggtccatg catgtgtggg aggaacatcc gtccgtgagg accaaaggat 300
 tcttggcagt ggtgtgcatg ttgttgttgg tacacctggt cgtgtgtccg atatgctgcg 360
 cagacagtgc ctccgccctg ataacatcaa gatgtttgct ctagatgaag ctgatgaaat 420
 gctttctcgt gggtttca 437

<210> 13625

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-G6

<400> 13625

cgtaaacgc gctgctatcc cccgctagcc gccgcgctgc tgcggctcgc ctacctcctg 60
 cccagtcccc gcgccccggc gccgaacgcg ccgtctactc tcgctccctc cttttacccc 120
 gagcttaagc tcgcgcgtac ctgcctacct atccgtaaga gaggaagagg ggacaaggcc 180
 cggtcggtcg gtcggtcggt gggctctcgg atctcgccga tgtctgcccg ttcgttcggt 240
 gggatctcgc gccatggccg tcgtctcgcc gtctcggtc cccgcg 286

<210> 13626

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-E8

<400> 13626

cgacccactc gtacgctggc gctaaactgc taccttgaca tgtctacttt cctaagccat 60

tgaccctgag ccgggatcgt ttccactgga gcttgtgtac aatatacctt cagtcctgaa 120
 gcgtcacata cgtcgaatac tcgcgcataa cctattactc tgaacaggcc gcactccagt 180
 catgtatcac aattctcaca tgctcacagc tcacttccat atttcagatc tggatccaac 240
 cacttattac gctgacattc tttatcgtca actattgaaa 280

<210> 13627
 <211> 377
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-D1

<400> 13627

gggacttcgg cttcgatccg ctgggcctcg cgaccgtgcc ggagaacttc gagcggttca 60
 aggagtcaga ggtgtaccac tgccgctggg ccatgcttgc cgtccccggg atcctggtgc 120
 cggaagctct gggcctgggc aactgggtga aggcgcacga gtgggcggcc gtccccggcg 180
 ggcaggccac gtacctgggc gccccggtgc cgtggggcac gctgccgacc atcctggtga 240
 tcgagttcgt ggccatcgtc ttccgagagc accagcgcac catggagaag gaccccgatga 300
 agaagaagta ccccgggggc gccttcgacc cgctcggctt ctccaaggac cccgccaagt 360
 tcgaggagta caagctc 377

<210> 13628
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-D10

<400> 13628

cggccaaca ctttcacgct caggcgctca gctctagcaa tggctgcctc caccatggcg 60
 atctcctcca cggcgatggc cggtaacccc atcaaggtgg gctccttcgg cgagggccgc 120
 atcaccatgc gcaagaccgt gggcaagccc aaggtggcgg cgtccggcag cccctggtac 180
 ggccccgacc gcgtcaagta cctcggcccc ttctccggcg agccccgag ctacctcacc 240
 ggcgagttcc ccggcgacta cggctgggac accgcccggc tgtccgccga ccccgagacc 300
 ttccccaaga accgcgagct ggaggtgatc cactcccgtt gggccatgct cggcgcgctc 360

ggctgcggtct tccccgagct gctctcccg aacggcggtca agttcggcga ggccgtctgg 420
 ttcaaggccg 430

<210> 13629

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-D11

<400> 13629

cggggcaaca ctttcacgct ctatcgctta gctctagcaa cggctgcctc caccatgggg 60
 atctcatgca ctgcatatcg gcggtaccga ccatcaaggt gggctccttc agtgagggcc 120
 gtatcaccat gcgcaagacc gtgggcaagc ccaaggtggc ggctgcggc agtccctgtt 180
 acagtccga ccgctgaag tacctcgaac cattgtcgg cgagcccccg agctacctaa 240
 ccagcgagtt ccccggcgac tacagatggg acacctccg actgtcctcc taccgaga 300
 ccttagccaa gaaccgag ctggaagtga cccactgccg ctgagccatt ctccgggcgc 360
 tcagctgatt cttccctag ctgatctcac gcaactgt 398

<210> 13630

<211> 448

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-054-Q1-K1-D3

<400> 13630

cccgaacaat aaacaacagc ttcacctcc tctccagtg caggccgtcg gcggctggcg 60
 gcgtcatttc tctccttcc tctggcctgc cctgccctgc cctgcccgcg cgataaccat 120
 ctctcgcaac tctcttcgt actctcgtc tccaacgccg gcaacaacta cagagcttca 180
 gcttcccaag cgcgagacat gcgtgcggaa acacagacgg cggagtagcg tagcgccacg 240
 atgggattgc caagctggta ggtagccaag aagacatgag atgggggctg ccttgggctc 300
 cgccgccagc aaggaccggc agcaggagca cggcggcgag gctccgcgac cagatccctg 360
 caagaagacg cggctctcgt ccnctctctg cactatccac ggtagccact gtcactcgag 420
 gctgatccca gggctcccg atgaggtc 448

<210> 13631
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-D5

<400> 13631

ctctgcttct gcggcgctgc gagctccggc tcagttttct gctctcccgc cgcgccgtgg 60
tcgccgtcga aattcctgac gcgcgtgccc agcgtcgtcg ctctgctcga gttggtcctg 120
gtggccgttg tttggaaaca gactcgaccg caccagcgc cgagcttctt cctgctcatg 180
cccagtcgct ctctctctgt ttgccgcttg tccgtctccc tgggtgctcg cgcgcgcgct 240
attccttttg cgcgcctggc tagttctagc tcgaacaaaa ccgtctgcgc ctgttcgccc 300
ctgctgcgcg cagtcgcgca gctcgcggag ctctcttgcc gtggccgtcg cgtccctggt 360
cctagccttt agctcagtct ctatgcgcgc gagctcgccg gtgtgctgct agtctaactg 420
ggatctcgcc catggcgctg atctgt 446

<210> 13632
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-E10

<400> 13632

gccggcggag ccatggcgac cactctttcg ttatcctctc ccctcttctt cggagctccg 60
gccagaggca agggttacac gagtagagtt cgttgtcggg agcagcagcg acgaacgaca 120
atagtatcta tgcttgaag gaaatcaacg gctagagcaa ctgttgctcc agaccccgac 180
tataggttac caatcgctat acttgggatt gctagtgtt ttgcatatgc cgacaatctt 240
ctcgctgctg cacctgtagg actgctgggg cttcttcttt tgttccagac tacaagagtg 300
aggttcgtct ttgataacga ggccctggag gtgaagggtg gagagcagct gcaggagtca 360
ggtgaaaatg tattcgctcg cggaagaac cgttggaagt actcaacgtt cgtaaaactg 420
gagctgtggt g 431

<210> 13633
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-054-Q1-K1-E11

 <400> 13633

 ggcagacgat cagcgcggcg tggcgctcct gagcgagacc atgtccacac cctgctggt 60
 ggccacagca gaccagaccc tggaggacgt cgagtgccac ttcgaggccg tgcgggggt 120
 tccggtcgtc gacagcggcc tcagatgcgt cggggtgatc gtcaagaacg accgggcaag 180
 agcctctcat gggccaaga cgaagatata ggaagtgatg acatctccag ctatcacact 240
 atcgtctgac aaaaccgtga tggatgctgc tgttctcatg ctcaagaaga agatccacag 300
 attaccagtt gtaaaccagg acgaaaaagt aataggtata gttaccgcg ctgatgttct 360
 tcgctgttg gaaggcatgt tgaagattta ggagcgcaga taccatgct cggaagccac 420
 a 421

<210> 13634
 <211> 176
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-054-Q1-K1-E3

 <400> 13634

 tcgacgactg ggccatcgag gactctttac gttgcgcact acacaggctt tctgatcgcg 60
 gtgaccaatt gcaactctaa gcggcttgcc cttaacctgg atgccctcac gaacatacgt 120
 ctaaacttca taactgttg tacgctcacg agcatggttg acacatgtga gtactc 176

<210> 13635
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-054-Q1-K1-E5

 <400> 13635

 gctgctcagc tgcagcggca tgagcagctc ggcgcggttg ctggaagagg cgccgcccaa 60
 ggaggagcac ccacatcctg ccgtgccgga gctgccagaa cctgagctgc cgccgcaccc 120

taccgacgtc gtgccgctg agctgccc aa acccgagtta ccaccgcacc cggccgttgt 180
 ccccgagctg ccgaagcctg aggtgcctca tcaggtgccg gagcagccga agccccgagct 240
 gccaccgcac ccgacagccg tccctgagct cccgaaacct gaggtgccgc acccagtgcc 300
 ggagctgccc aagccccgagg tgccaccgca cccgacagcc gtccttgagc tccccgaaacc 360
 tgaggtgccg catccagtgc cggagctgcc caagccccgag ctgacaccgc acccggcggc 420
 cgtgcccag ct 432

<210> 13636
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-E6

<400> 13636

cacgaagtac ggaaggctgc cggaaggagc tctcacctca catccatctc tgtcgcgccc 60
 gtcacctccc tctctctccc ctctcaact gctatcggat ttgcgctgca gtggagatcg 120
 acccgggctg ggaatttctt tcgttggtaa ggaaccctaa tttggtcgga tgggattttc 180
 atcttcgacg aagccccgga gattgatcga ccttagctga cgcgagggat tggaaagcga 240
 acgctcgggc gtagttaatt ttctaggaag attggggttt cagctcaaac ccccatgctc 300
 gatgctgagg acgacctgg cgggagatga cgaggatctt cgtgcagcgc gggaccgccg 360
 gctactcgtc cagctcgggc cgctcgggct cgcaatcagc gcatcagccc gcagcagc 418

<210> 13637
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-B4

<400> 13637

cggacgcgtg ggcggacgcg tgggaggacg cgtgggtgcc gacgcggcgc tctcgccat 60
 catcgctgcc ttctctctcc cgctacgct cgtctcctc ggctcagcc tggcgctccg 120
 gcgtcacggt actagctcca gacgcgtccg ccgttctgt gccgctttgg ccgtcgagc 180
 cgcgctctc gcagtcatt tcgcctccc gcgtgaccac gtccgggagt gcgccgtcc 240

gatcgcttct gtctccagtg cccgggatga tgacggcggt ttccgcgagg agctgcggtt 300
 ggaggtcgag cagcttaagc agcagctggc gcggcttgaa tctctttggg atagtaaatac 360
 gaaagctgtg gatgataaac ttgattcttt agaggaggat aatggccgtg taat 414

<210> 13638

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-B7

<400> 13638

gcggagccga aaatgtagta caggggaacct ggtgttcttc tatggcgtgg cttcactctg 60
 caggaatttg caaaccagtg ctttgggaac aagctggact atggtaaagg gaggcagatg 120
 cccattcact atgggtcgaa ccgtctgaac tatttcacag tctcgtcacc tatcgcaaca 180
 cagctcccgc atgctgttgg agctgcctac tctctgaaga tggacaagaa ggacgcgtgt 240
 gccatcacat actttgggga cgggtgggaca agtgaggag acttccatgc agcgtcaac 300
 ttcgcggctg ttatggatgc accggtgatc ttcttctgcc gcaacaatgg ctgggccatc 360
 agcactccga ctactgaaca attcagaagt gatggagtgt tcatccgtgg ccaggcttat 420
 gggatccgtg gcatccgagt agatggcaat gatgc 455

<210> 13639

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-B9

<400> 13639

gcacctcttc ttctccctc tcaccgtgct cctcagccga ggtggcgagg accctccctg 60
 tacatcgtct cctccatgtc gacatcttcc ctcatctctc caacgtcgtc cagccattga 120
 gcagctcatc ggagcagcaa cgctcgacac tgagtagccc accgtggagt cacctcatca 180
 gcgctctctc gctcctcgtc cgctcgtcga gctcggcaag cccctcctca gccgtgccga 240
 gtctccaagc cggctgtcga cgctcgctt tgtttctgtg ttactgggat ccattcttgc 300
 tcgccaatcg agcaccacac ccaccgttcc agttccgatt ccgctagttg tcgttcgct 360

cgccatcgtc tcttgggaaa gattataatg tctttggctt aattagttac ttcattgtgga 420
 ggtcttgaag ctt 433

<210> 13640
 <211> 201
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-C10

<400> 13640

gctgagctcc ggaggggctt tgacatcatg gatttagacg ggggtatcgg atgggaacct 60
 gctaacttga tgggtccggt aaaaaacacg ggagaaggcc aatgctaagg ccgcattggc 120
 acaccctgac ttcaaccgtg aagggtcctt tggcctctcc gtcattgcaa acgtacggct 180
 gcaactgttc cgcgcaaccc a 201

<210> 13641
 <211> 380
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-C3

<400> 13641

ggccttcccc acccaggcga cccgtacgcc gtcattccat ctatctcgcc ttcacttccg 60
 actctccgtc tccagcttac cggcgcggtc gctggatgtc tacgcagtag atccatagac 120
 cctgatctcc tcgaggtgat tccccctgct gccagaggta tcttcgggca gcaatatcca 180
 ctggcgacgc agtcgccaca gccgctacgt tccctccttc accgtcatca ccacggctag 240
 gtggaagcgc tcggcgaggt agcgggtccg gggaaagaca tgggtgctgat cgagctggag 300
 cccgaggagg cgacgcgccc ctgctgccc gtggcgtaag agcaagcggc cgccggcgac 360
 gccgcgcgcc cctcgtcttc 380

<210> 13642
 <211> 451
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-054-Q1-K1-C4

<400> 13642

ggaactcatc atgaatccac taattgctgc tgcttccggtt attgctgctg gattggccgt 60
agggcttgct tctattgggc ccggagttgg tcaaggtact gctgcaggac aagctgtaga 120
aggtattgcg agacagccag aagcagaagg taaaataaga ggtactttat tgcttagtct 180
agcttttatg gaagctttaa caatttatgg actggttggtg gcactagcgc ttttatttgc 240
gaaccctttt gtttaatcct aaaaaagaaa atgagtcctt tagattagat acttttttct 300
tttttttagta cattggcatt tgcttatgta attctaagta tatcaatact ttactttact 360
cctatttatt atattatttc ttttttatat tattccggaa attntgtatt tatcgggaca 420
gacaataccc taggaacccc aagaagggt g 451

<210> 13643

<211> 421

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-054-Q1-K1-C6

<400> 13643

cccacgcgtc cgggccaaac gatacaggta tacgatacgc cgctcgcttg aatcgagacc 60
accaccgctc ccgctctgcc tcacctcgcc gactagagtt tttgccgccg cggatctcgc 120
cgtccccgcc atggatacgt cgggctcctc cgcagccgcc ggcgacgccc cgaccaccgg 180
ggagcaccgg atggggacca ccattgtcgg ggtctgtac gaggggtggcg tcgtcctcgg 240
cgctgattcc agaaccagca ctggaatgta tgtagccaac cgtgcttcag acaagattac 300
ccaattgaca gacaatgtgt acgtttgtcg ctctggatct gctgctgata cacatgtcat 360
ttcggactat atacgttatt tctnccacca acacacaatc cagcttggac aaccagctac 420
t 421

<210> 13644

<211> 401

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-054-Q1-K1-C7

<400> 13644

gaatcccgtat atcccatctc tctcgcttc actgccgcct ctccgtctcc agcttaccac 60
cgccgccgct ggatgtctac gcagtagatc catagaccct gatctcctcg aggtgattcc 120
cctcgtcgcc agaggtatcc tcgggcagca atatccactg gcgacgcagc cgccacagcc 180
gctacgttcc ctccctcacc gncatcacca cggctaggtg gaagcgctcg gcgaggtagc 240
ggctcggggg aaagacatgg tgctgatcga gctggagccc gaggaggcga cgcgcccctc 300
gttgccggtg gcggaggagc aggcggtcgc cggggacgcg gcgccccct cgtcttcagc 360
ggcgcccag gagggaggag cagccgctgg aaggaaggcg t 401

<210> 13645

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-054-Q1-K1-B2

<400> 13645

atgcaagaag acgtactcaa tttctactct cttctatcag tctcctcact cctatctctc 60
atgtctcctt ttctcccccac cgcttctgtc acccacgcag cacgccggag cagcagtagc 120
agtcgagctc ggcatcagct cccttgctgc tcactttgca gcacctcgcc agtccctgg 180
taacactctg cacctgccgt cgaactctct cagggttcggt catccctgct cccttccaaa 240
tcaacgcccc tccactcgac tctactactg tgctgtgcgc gcgcttctc ctgcttccgt 300
cgctgggtgc gtgtcatct tccgtcgcgt gccacctggt cgatagaatg agcagtttgg 360
tcgtccccat ctgcgcgtgg ttcgtctctc ccatgttttc agatgtgttt gggctgagat 420
gccattcnaa atcgatgat 439

<210> 13646

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-H7

<400> 13646

gcaagatttg ctcagatgat gtggagggta aatttctttg ccatgtcctg ttgcatggtc 60
 cttgacaatg actacatggt gtactatata gctccgatgc ataccctgtt cactcttatg 120
 gtgtatggat cactgtttgt tctcaacaag tacaatgaga tcccatcagt catggccatt 180
 aagatcgcaa gctgcctctt gactgtcatt ctgatatggg aaattcctgg tgtgtttgga 240
 attttctggg caccatttac gggtctggta gggtagcaaa acccaaaagc ttctaagaag 300
 aacctaaccc tggtagacca atggcgcttt cggttttgcc ctgatcggtg catatggatc 360
 attggaatga attatgctta ctttcacccc aacgtaagtg ttctaaagag 410

<210> 13647
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-H9

<400> 13647

gcgacgctgg cggaccgccc ggcgctcgcg tcggtcaagt tcctcgacga gagcgacaac 60
 accatcaccc gcgccagcta cgggcccggtg tggcgctgc tgccgcaaa cctcgctgcc 120
 gagacgctgc acccgctcgcg ggtgaagctc ttcgcgccgg cccgtgcatg ggtgcgccgc 180
 gtgctcgctg agaagctcgg ggaggccggg cccgacgccg tcccgccccg cgtagtggag 240
 acgttccagt acgcatggt ctgctctctc gtgctcatgt gcttcggcga gcgccttgac 300
 gagcccgccg tgcgcgcgat cgcttctgcg cagcgggagg cactcatcta ccgctccaag 360
 aacatgcagg tcttc 375

<210> 13648
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-A1

<400> 13648

gaggagcagc gcagccgca tggaccgttt ccagctcgtg ctctcggcc tccccatcct 60
 cctcttctgc tccgacgtcg ttaccctctt cgcgctctc ccgcccggg gccccgggcc 120
 cgacaggggc cccacgctt ttcagcccgg cgccgaatcc tactccggcg ccgacgcttc 180

cgcacatgtg gagccacagg tggacggaac tggctccggc accaccgtcg acttcaagtt 240
 ctgcgctccc tgctcgtaca ggggaactgc aatgaccatg aaacggatgc tggaaacctc 300
 ctttcctggg atccatgttg tcttgaaaa ttatcctgcg acgttcccca aacgcgctct 360
 cagtaaagct gtaccccttc ttcagttcgg cgcgatggca acattaatgg ccggtgatca 420
 gatcttcccc aggtttggaa tg 442

<210> 13649
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-A10

<400> 13649

aaagcagaag cgctctccag aagtatggta gagagagggg ggacgacgac agccgtgggg 60
 gccgcggact gcacgctcg acggtagctg acgtcactcg gcccagtga attttcaagc 120
 tttggtggtg gctcgtctgt ctgatccgcg ctctgctgct tattcttcgc ccgccggact 180
 gtatgacaac tataacagta cctacgtgat cacaggtcta ggcatttgcc ctaccagtac 240
 agtacattgg actagtaata actagtatgt atccagcaaa ccgacacatg gatccatact 300
 actagcacta tagaaaccat gtttcttacc catactatcc tcctgccaga tgggaaatcc 360
 catgcggtca tccacaggca atggactcat c 391

<210> 13650
 <211> 311
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-A11

<400> 13650

cgggcacgac gccacgcgct acgaaagcac taacgctctc aagtattgcg gtttatagat 60
 ccaggacgac gacagccttc ggggccatgg actgcatcga tatcaaagtg gtctccttac 120
 tcgaaacgcc gatcaccatg cgctaagacc gatggcaaga ccaacggatc cgagctctga 180
 tgccactgct tcggcccccg cactgtataa caactatgac agtacgtacg tgatcccagg 240
 agtaaccata cgtactagca ccacagctca taggactagg actaaccagg acttatccac 300

taaaccgaca c

311

<210> 13651
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-A2

<400> 13651

agctcaagtg gtaccttgct ctctgtgct acttcttcgc tcccgtaggt gcgttctgca 60
actcctacgg aatgggacct accaacctga accttgcccc gacctacggc aagatcgccc 120
tcttcgcgtt ggacctgctc gtcggcagtg atggcggtgg agtcatcgcc ggccttgca 180
cctgtggcat cgtaatgtcc gttgacctgt ccacagccga tctaatagcag gacttgaaga 240
gcgggtacct gacctctctg tcgccggcgt cgatgttcac tgcccagctg atcggcacgc 300
cgctcgggtg cgatcatagt ccgctcacgc tgtggctctt ctggacagcc ttcgacatcg 360
gcgacctga cggggagtag aaggccccct ttgccatcat gttccgggag at 412

<210> 13652
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-A7

<400> 13652

acgagatcct cggggtagcc aagtcggcgt cccaggacga tctcaagaag gcctaccgca 60
aggctgctat caagaaccac cccgacaagg gcggtagacc cgagaagttc aaggagctcg 120
cacaagccta tgaggttttg agtgatccag agaaacgtga gatttatgat cagtatgggtg 180
aagatgccct taaggaagga atgggcgggt gaggatccca tgttgatcca tttgacatct 240
tctcatcatt ttttggaacc tcttttgagg gaggtggtgg aagcagcagg ggaagaaggc 300
aaaggagggg agaagatgta gttcacccac ttaaagtttc tctggaagat ctttacaatg 360
gcacctcaaa gaagctctct ctttcgcgca atgtcatctg ctccaagtgc aagggcaaag 420
gctcgaagtc tggtagctca atgaggtgcc ctg 453

<210> 13653
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-A8

<400> 13653

ataaactgcg gattctttct ttctcttcca ttcttacgtt tccatattaa agtgtagttg 60
ctttactgaa atttaatact attaactctaa tatgcccatt ggcgttccaa aagtacctta 120
ccggattccc ggagatgaag aagcgacttg ggttgactta tacaatgtca tgtatcgaga 180
aaggacactc ttttttaggt caagagattc gttgcgagat cactaatcat attacaggtc 240
tgatggtata tctcagtata gaagatggaa atagcgatat cgcgctgtct ataaactccc 300
ctggcgggtg gctaactctca tgaatggcca tttttgatac gatgcatacg gtgacacctg 360
atatatatac aatatgc 377

<210> 13654
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-A9

<400> 13654

aaaccagaag cgctcgcgag aagtaaggga gagagagggg ggacgacgac agccttgagg 60
cccgcggact gcacgcctcg ccggtagctg acgtcactcg gccccgtgga attttcaagc 120
tttggtggtg gctcgtctgt ctgatccgcg ctctgctgct atgtcttcgc ccgccgcact 180
gtatcacaac tataacagta cctacgtgtt cacaggctca ggcatctgct ctaccagtac 240
agtacattgg actagtaata actagtatgt atccagcaaa ccgacacatg gatccatact 300
actcgcacta tggaaaccat gttccttacc catactatcc tcctgccaga tgggaaatcc 360
catccggtca tccacaggca a 381

<210> 13655
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-B11

<400> 13655

gcggctcttg ttctccctg tttaccgtct cctcagccgc agtggcgagg acgctcccgg 60

tacatcgtct cctggatgtc gacatctcac ctcatctcta caacgcaggc cagccattga 120

gcacctcatc ggaacagcca cgctcgacac tgagtagccc accgtggact cacctcatca 180

gcgtatgtc gctaatacagg cgttcgtcga gctcggcaag cccctactca gccatgccga 240

gtctccaagc cggctgtaga cgctcgactt tgtttgtgag ctactggcat gcattcttga 300

tcgccaatcg agcaccacac ccaccgctcc agctccgagt ccggtagctg acgttcgcct 360

cgccatcg 368

<210> 13656

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-B12

<400> 13656

ccccggccat tcaactaccc acctagctag tcatcactag tcacgttcgt ccaccagaga 60

caacaatggc catggagacg tgcttcagag cgtgggcgct gcacgcccc gctggcagca 120

aggacaggct cctcgtcggc aacctggtgc tgccgtcgaa gcgggcgctc gcgccgctgt 180

ccgtggggccg cgtcgccacg cgccggccgc ggcacgtctg ccagtccaag aacgcagtgg 240

acgaagttgt ggtggcggac gagaagaact gggacgggtt ggtgatggcg tgcgagacgc 300

cggtgctggt ggagttctgg gcgccgtggt gcgggcccgtg ccggatgac gcgccggtga 360

tcgacgagct 370

<210> 13657

<211> 383

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-053-Q1-K1-F7

<400> 13657

ctcaccgatg gcgaggggtc gggacaggac ggaggacttc aaagaggctg tccgagtcgc 60

cgcaactctcc catggataca cggaggccca attggccgcg ctcatgtctt ctttcatcat 120
 ccggaagccg tcgccaagt caccgttcac taatgccgca atcaagacgc ttcagagcat 180
 cagggaactc gagaggttca tagtgaagca taggagggat tatgtggatc tgcacgcac 240
 taccgagcaa gagagggata acattgagca tgaagttggt gtttttgtaa aagcatgcaa 300
 ggaacagatt gatattctaa agaacaggat ccacanagaa gagaagaatg gaagtggaaa 360
 gacatggctt ggcactaggg atg 383

<210> 13658

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-F8

<400> 13658

gtggggctag aaaaggaag catgctgtga gagaagaatc acaccgggcc gtgccgatgg 60
 gtgtctacga gtagcagttg tatctcgctg acctcaccgc ctgctgggca ccaaggagga 120
 gatgacttac ccgaagcggg cagcatggcg ggaagggtgc ggatgcttgg cctgcgtcta 180
 cgcggggcct acgcggggcg tgcttgccgc cggcggtgac ggcggacggt gacagcagct 240
 gatcggccaa gggcaggcac gttcactacg catcagagac ctgatatgtg aatgctagca 300
 atcgggagct aggcgatcat cttcacacaa aacgccatgg ctaaaacggt gttgatgcat 360
 caattgagaa ggagacaccc caggtacttg agtttacctt 400

<210> 13659

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-F9

<400> 13659

ccgatcacgg taactgaatc tgatgctttg gatgccgtat agattgctct tcaggggggc 60
 tcgtcgatg ttactaccag ggctatgtgt cttgtctctc ttctgaagct ttcttcccgg 120
 tttccaccaa catcagagag aatacaagaa atagttgcgc aaaatacagg gaatactgtg 180
 cttgaattgc agcaaagatc tattgaattc agttccatta taaaagaca tcagtcgata 240

aaatcatctt tgcttgaacg tatgcctgca ttggatgaag caaattattt ggtgaagaga 300
 gctgcttcta cacaggetgc tgtttcatct gtaaattctg cttctgcagt cacttctgga 360
 tgcccaactta agcttgcaaa tggcgatatca aagccaccac cagcttcttt agc 413

<210> 13660
 <211> 313
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-G10

<400> 13660

gagcgctcgc tcgatcctag ctttcttcca agaagcgcac gcccatggcc gggggaccaa 60
 gcctcgcgca cgcgccactg ctggccgcgc tgggcgccgg cggcgaaccg cggagctgag 120
 ctcgcaactc aggetgacgt agtggcctgc cgcgatccgg cccacgtccg cgcgtgccac 180
 cgagaagcag ctgaagcgcc caatgcgttt cgggtccccc cactggaccc cagcacgccg 240
 tgcccgacct tcagcggcag aaccgacggg ctgctacgga aggcgcata agaggagtgc 300
 tacgtcatca cgt 313

<210> 13661
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-G11

<400> 13661

cgcttctccc gtcgtcttcc ccgctcctac gacctgcgtt tgcgatgct ctctccatgg 60
 caccctctcc tctccccgt tgcacctct gccatggagc tacggtcacc gctgaactca 120
 cataactgct cccttacctc ctccattaga ccaccgccac cgcgctcctt ggcgcgggcg 180
 cccccacgc tttccgccac cgcagcggcc gtctcgtcgc tgtccgccac ctacgcggcc 240
 atctcgtcgc cttcctgtcc aaagaagaag gttctcgtgc ccatcgccat gggtagcgag 300
 gagatggagg cggatcatcat cgcgggtgtc cttcggcggg cttccgctga tgtgacgctt 360
 gcctctgtgg aggacggcct cgagggtggag gcgtcctgcg gctcccgca 409

<210> 13662

<211> 386
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-053-Q1-K1-G12

 <400> 13662

 ggcgagcgcg tgccgttcct cttcaccgtc aagcagctcg tcgccaccgg caagccccgag 60
 agcttcggcg ggcccttcct cgtgcccagc taccgggggt tctccttact tgaccccaag 120
 ggccgcgcg gcttcaccgg ctacgacaac gccgttgcg tccccgccgg gggcagaagt 180
 gacgaggagg agctccagaa ggagaacatc aagaacgccg tcttctncac cgggaacatc 240
 acgttgagcg tcaccaagag caaccgggag accggcgagg tcatcggcgt cttcgaaagc 300
 gtgcagncgt ccgacaccga cctcggggcca atgcgccaaa gatgtcaaga tccaggggggt 360
 ctggtacgct caactcgagt gattcg 386

<210> 13663
 <211> 372
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-053-Q1-K1-G2

 <400> 13663

 cgccgtcggc catgggtcaa gcctggggta atctccaaga taggctccaa gggcggcggt 60
 ggaaggagca ccaggtgagg aagatcaccg acaaggtgtt cgaccgcctc acggaggacg 120
 cccagaagcg cgacaaggag gccctcagat tcgaggaggt ctacatcgcc gtcctctgcg 180
 tctacaatga catcaacaag tacttgccgg ggccacacca cgaccccccg tccaaggaga 240
 agctcagggc catgatggag gactacgacg tgaacctgga cgggctcctg gaccgcgagg 300
 agttcgcgga gttcatccgg aagctgaccg cggactcgct gtgctcgatc agcgtgaagc 360
 tgctgatcac gc 372

<210> 13664
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-053-Q1-K1-G3

<400> 13664

cccgcgtctc gccgcgtagg cgccacagaa actcgacgc cgctccccgc cgtcctgccc 60
gagtcgccgt cgccgccgaa tccaatccat ggctccgacc gcctcaccca ccgcgctgca 120
ccaccgcacg cccctcctac tccccgcgcg caccgtcgcc ttgggtgcca ccgtcaccgc 180
gcgcgccgtc agggccgctt ctctagccgt cagggcccag ccggatacca ccgtgcagc 240
cgtctgcacc tgcgcgcctg agccgacgcc cgagttcaag cctgcgccgg ggttcaaggc 300
gcccagagccc aagaggttcg aggtcaagtc cggccagctg ggcagcgctc tcggcgccctc 360
gctcgccatc cccctaagcc tcggcaccgg cgtcttcgtc ctcgggtact cgccatctgt 420
tggt 424

<210> 13665

<211> 238

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-G4

<400> 13665

agctctcctg agaagcatat agcaccagcg gaacacggga acggcggaag caaacaacta 60
gaaattcccc agcccggttc tttgcgtgcg gttgatctcg tcggaagccc gggcggggggt 120
ccccaatccg gcatcgaatt ccatgggggg caacggccgg aattagatcc ggaacggcca 180
actgggtctt cttggaaaag ttggcccctg ccaatctagc ctgggtcttc gggttgggt 238

<210> 13666

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-G6

<400> 13666

tcggttttga attctcgact caagcgtccc ttccgtgggt cattgggtcat gccttgttta 60
ttttacaata tagctccaag caccaggggtg gaattatcac caagtgaggt agatcaccga 120
ctaagtgttc gaccagctca cggatgactc ccagaagcgc tacaaggagt ccctgatatt 180
cgaggaggtc tacatcatcg tcctctgcgt ctacaatgac atcaacaatt acttgccctgg 240

gccacaccac taccctgt ccaaggagaa tctcatggcc atgatgtagg agtactacgt 300
 gaacctagac ggtctccttt accagaagga gttcgccgag ttcattccta agctgaccga 360
 agtctcgctt tgctcgatca acgagaagct tcttatcacg ct 402

<210> 13667
 <211> 245
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-G8

<400> 13667

aagtaaggaa ggcctgaaga ctctctttca catctccagt tactcccata caggtaggta 60
 ttcatagcca ctttcatcga actaggacga tctcaccgac atgtaagcac taagcaaccc 120
 aataggatca tcagaccctg cctgatgcc acaacccaa ctacatcttc cttgcgaca 180
 tcgtcgacat tgtaaaacttg gcccgcatgc atacatacgc agcctcttac gagcgccaat 240
 ggaca 245

<210> 13668
 <211> 416
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-053-Q1-K1-G9

<400> 13668

gattcgctcg ctcgatccta gcttcccttc caagaagcgc agcgcccatg gccatgtcca 60
 cgcaagcctc cgccgccacg cgccacctgc tggccgccgc ctggcgcccg gcggcgaagc 120
 cgcggcagct gagctcgag ctgcgctgc cgtcgtcgtc ctcccgcggg ccggccccgc 180
 tccgcgctt caccgaggag gcggtggagg cgccaaggg gttcgtggcc ccgcagctgg 240
 accccagcac gccgtccccg atcttcggcg gcagcacggg cgggctgctc cgcaaggcgc 300
 atgtggagga gttctacgtc ataacgtgga cgtnccccaa ggagcaggtg ttcgagatgc 360
 ccaccggcgg cgccgncatc atgcgggagg gcccacccc tttgaagctg gcgcgc 416

<210> 13669

<211> 239
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-053-Q1-K1-H10

 <400> 13669

 gccagctct ggtatcaggg aaatcttttt cttgcccttc aaccctgctg atacgaggac 60
 tgctttgacg tacattgata cggatggcaa ctggcactgc ttcagcaagg gctctcctga 120
 acagatcttt gacctgtgcc actgcaagga tgatctgagg cccatggtgc actctaccat 180
 gcgctagtat accaagcctg gtagtccttc gcttactgct gccagaccgg aattaccta 239

<210> 13670
 <211> 378
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-053-Q1-K1-H11

 <400> 13670

 cccacctga cggggcctcg ctctcgcgcc cctcgccgcc gctggcaaag ccccacccgc 60
 gcagccgctt cctctgcctc atctcctcca tgctcgccgt cctcggcgcc tccctcgcg 120
 gtctcctctt attcgcgctc caccgcgcgc cgaaccgggt cccgaactac gcgtcgctct 180
 tcctctacct cggatccaac gacaccgccg cctcgcacct acgagcgctc actctgcacc 240
 cgcacgtcgc ggggaccaag gcgaacgccc tcaccggccg gtacgtgttc gacgcgctct 300
 gcgcgctctg ctttcccacc cacattacgc cttaatccgg cctcctgtgc taaccggttc 360
 aacggttcct tttccttt 378

<210> 13671
 <211> 62
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-053-Q1-K1-H12

 <400> 13671

 attccctgcg attcctctcc cctcgccctc tcgtctcccc ctaggggatc gtcggagagg 60
 aa 62

<210> 13672
 <211> 397
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-053-Q1-K1-H2

 <400> 13672

 acgctatgta cgtatgtgta gcagatgggt tacatctacg tgtagacca actccagcag 60
 cactccgcat gcggctccgg atccctatct tgcggagcct agctcactat tcatcagtcc 120
 agcaggctcc gcatccgggt ccgtaaaacg caggcctgt acctgcactc cccatttcca 180
 cgctttctct ctctctccg cagctctctg cgtgcgcgcg cggctgctcg cgggccccag 240
 gtgtcataga ctgcatgcgg agtgggatgt ggagtgttgc tggaaacgga gactgatacg 300
 gagaggagag agaaactgtt ggccgcgcgt ttagggata cggagaggga gtctgctgga 360
 gttggtctta gagcccgag agctggagaa gctagct 397

<210> 13673
 <211> 313
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-053-Q1-K1-H3

 <400> 13673

 aatttcta at gatgggtgctg atgcgactac tgaacatcat tctactgtag ataattacca 60
 gacaagttaa aatggggctg aatgggttga gctattggctc agggagatga ctaatgctta 120
 tgacatagat aatgctcggg ctaatgcgtc cagagcgctc taggctttgg cgatatcaat 180
 cgtatagcgt tcaggatctg aatctacaca taacctttat atggtaatca tgattctcaa 240
 agagctgctg actgttgaac tgcgagagaa cgctttactg aagcggtcgg ttgccattaa 300
 ccatgagctt cta 313

<210> 13674
 <211> 318
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-053-Q1-K1-D9

<400> 13674

gcgaacatta tcggattcat gtgttattta agctgccctg gatgggatac aaccgcggga 60
agcttgggccg gctatcattc tcacgtatt cgcgccgtac caagcaagaa gcctgttggtg 120
acgatggcct tcctacatta cttccaaggc aagacgtatg cacagacaac gaactcaaaa 180
gttcaagaat tcagctcgca atgagggact atgatcagtg tgacattaaa agatgcactg 240
gtcgtaaact ttcaagatcc gggcttggtga acgagtcgag agtgaccatc gcgtttggag 300
gagttgatct cagccctg 318

<210> 13675

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-E11

<400> 13675

cgttcctctc ctgcctccag ctctccacgg tctctgacct gcacaactga acccgcgatg 60
gcgcgccgcc tcctcgctgc cctcctcgcc gcgtcgctcc tgctcccgtc cgcccgcgcg 120
gactcctcct cgtccccgcc cgacaccacc gcgtacgacg agctccgcct ccgggggcttc 180
ccgcgcggcc tgctcccggc caacgtgctg gcctacacgc tcgactccgg ctccgggggac 240
ttcgccgtcg acctccgctc cagctgccgg atcgtgctgc ccgcggggag ctacctcgcc 300
gccttcagcg accgcctcac gggccgcctc gacgaccgcc gcctctcggg cctcgacggc 360
atccgcgtca gggccttctt ccgctggtgg tccatcacgg ggatccgcgc cgat 414

<210> 13676

<211> 398

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-053-Q1-K1-E12

<400> 13676

ggggcctctc ctgcctccag ctctccactg tctctgacct gcacaactga acccgcgggg 60
gcgcgccgcc tcctcgctgc cctcctcgcc gcgtcgctcc tgctcccgtc cgcccgcgcg 120
gactcctcct cgtccccgcc cgacaccacc gcgtacgacg agctccgcct ccgggggcttc 180

ccgcgcggcc tgctcccggc caacgtgctg gcctacacgc tcgactccgg ctccggggac 240
 ttccgcgtcg acctccgctc cagctgccgg atcgtgctgc ccgcggggag ctacctcgcc 300
 gacttcagcg accgntcac gggccgtctc gacgaccgtc gcatctcggg cctcgacggc 360
 atccgcgtca aggccttctt ccgctggtgg tccatcac 398

<210> 13677
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-E4

<400> 13677

ccgaatattg tcaagttcat tgggtgctgc aggaagccat tggtttgggtg tattgtgacg 60
 gagtatgcga aggggtggatc tctcaagaat ttcttgagca agaggcagaa caggtctgtc 120
 ccgctgaagt tggcagtcaa gcaggcattg gatgttgac gtggcatggc ctatgtccat 180
 ggcttgggtg tcattcatag agatcttaag tcggacaacc tcctgatttc tggtgataag 240
 tccattaaga ttgctgactt tggagtggct aggattgaag tcaagactga ggggatgaca 300
 cctgaaactg gaacataccg ctggatggct ccttgagaag tggcagttaa gaagaggtgg 360
 agcaatatgg gacgaaggaa gctttggtct catttggttc catgaactag acccaacaa 419

<210> 13678
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-E8

<400> 13678

gtggctgact actgcgccat ctactactcc gacgacggcg cgggtggcgag ggacagcgag 60
 ctgcaggggt ggtggagcga ggtcaggaac gtggggcacg gcgacctggc ggacgctccg 120
 tgggtggccg cgatggactg cgtctccgac ctctggaga cctgcgccac cgtcgtctgg 180
 ctgagctcgg cgtaccacgc gtccatcagc ttcgggcagt acgactacct gggcttcgtc 240
 ccgaacgggc cctccatcac cacgcggccg gtgccgggcc cggacgccgg ggcggaggtc 300
 acggagtcgg acttcttggc gagcgtcacg ccggtcaccg aggcgctcgg cttcatgtcc 360

atcgccctcgg ggccgatggg gctcaagggc acggaggtgt acctggggca gcgcccggac 420

a 421

<210> 13679

<211> 176

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-F1

<400> 13679

tcgacggatt cgcgctcgac acctcggcgc tcctcgtctc gggcgcgagc gctgagggca 60

cgccaagat gctgacctac gacgagatcc agagcaaaac gtacatggag gtgaaaggca 120

cgggcacggc gaaccagtgc cggaccatcg acgggggcgt ggaatcggtc ccgttc 176

<210> 13680

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-F10

<400> 13680

gtgttcttgt atccctgcta gtgttgctc tctcccat ccaccaagtc tgctctgtgc 60

agataatcaa ttgccagtgt tgaccattct cacatttctt taccctacct tagccagaac 120

attctacgta gttgctggcc tatatgatac ttgctccata ttcattgtaac actttcctga 180

agttgaagaa gatattctatc atagttgagt tccattattc atagacatca gtcgatcaaa 240

tcatatatgc ttgaacgtac gcctgccttg gatgaatcaa attatttgat taatagagct 300

gcttgtagacac tggctgctat ttcattctgta aattatgctc ctgcactcac ttat 354

<210> 13681

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-F11

<400> 13681

attctcaagt gatattttgg tgtagagctt gaccagggtc agtgtttctt tggacagtgc 60

atgtgagcca gcaaagtata tgtgcatggg agccacgttg agttgctcct gcagtgtgtc 120
 tgtgtctggca tgccccaaaa ttcatgttca ccaagttgtg gtcgagttcc atatgcctac 180
 ctacataatc agtgatgcct gcccatatat atacaaccct ttggttgggc tcagtgaagg 240
 tctcctccct gctcacgaat tatttccaaa gattactgta ggggtgttgcg tcgcatgtgt 300
 tcctgctagg atgaatcttc tgcccagtct gtacatcgat ctgcttaagc tggatatgtgc 360
 caccatcatgt gctggttacc acgcgtgcag ttataccagc tc 402

<210> 13682

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-F12

<400> 13682

cacagcaatc cacacaagca ctctgacgtc acacggggcg tgacacaga cacaccaagc 60
 gtcggcacca atggcttact accaggaggt ggactactgc tcggaggagg tgaggctcgt 120
 ggccccggcc ggcttcggcc gccacggcgg cggcgctccag cagcacgtcg tcaaggagaa 180
 gtctgaggag gtcgacacgg tcgcacgcgc cggcgccaac caccaccacc accatgggtca 240
 ccacggcggc cacggcttcg tgggtgcgca gaccagggtc gaggaggaca tcaacacctg 300
 caccggcgag gtccacgagc gcatggagag 330

<210> 13683

<211> 209

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-F4

<400> 13683

tcccgtcga ctccactctc ctaccaccgt cactcatcac atcacagcta ctcgagagag 60
 agagagagag aaagatgggt ggttcttaca ccacctacac ttccagcact ttactctat 120
 gtacaaccct aaccagatac tcaaaataac tctacagtct aaccctaaca actgacatgg 180
 cttacaatac caaactctta tttttcaat 209

<210> 13684
<211> 56
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-F5

<400> 13684

ggcatcaccg tcgcgacgac gatggcagcc tcgctccaag ccgcggccac cctgat 56

<210> 13685
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-C2

<400> 13685

cccgtcccga ctccactcgt tcgacgagag aactcctctg atacgtagtt tcactttccc 60
aagctagcca ttccttctgt gtaggcgtct ccagcccatc ggcgccacct aatataccta 120
catctattgc taacacctca gatctcaaac gctagccagg taaaatgcca agatcaaata 180
aaatgttcac ggcaaattct agaataatgg cggtatttag tgccttgaca tcgaatccag 240
agcagctgac attcgacgaa accctcatat ttgtcaagaa agtgaaggcc cgcgattaca 300
tgctatacct gtcattgttc gacattcttt gcataatgga actatcccag ctcgatgcct 360
accgagagtt acagctgctg tttggaaacc acccgatct gtgcgaagag ctcgagaagt 420
tcatgccacc ggtgcctac 439

<210> 13686
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-C3

<400> 13686

taaccatacc ttatcataac acaaagtaga gtctcttcaa atactaataa caaatttgct 60
catcgtctca aaatccacca gaattcatta taccagtact ctcacatcta aacttaaaat 120
atatctacat ctactataca tcgattaaga gtcattggct gcaccatacc aatgtccacc 180
tacaatcaat ctagctccta ttaatccgac taccagacac atccttaata cacaaaaata 240

gcacgaagca tcttcagaca tgtata

266

<210> 13687

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-C4

<400> 13687

caacgactcc cggctccact gtcgctctcg ctcccttccc tcccacgcaa tggtagcgcg 60

atcgctccg cctcgcgctg ctgctctacg cgtgcctctg ctccgctgg gcgcgccac 120

gcctagagcc gaccatccgc ctgccgtccg agcgcgcggc ggccgacgaa acggacgacg 180

actccgtcgg gacccggtgg gccgtgctca tcgacagctc caacggctac tacaactacc 240

gacaccaggc agacatgtga catgcataca agaccatgaa taacggcgga cgtaaggact 300

agatcacaga atggaactat tacaactaca tgcctaccaa gagggacaaa tgctaggtgg 360

aaacc 365

<210> 13688

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-C5

<400> 13688

cctcagccca ctctctctgt gtacgctagc tcccagtcac tggaaatccc cgagcacggt 60

caccggcacc gacgagttga gccccgacgt ggccatccct tctcagaaca caaagaagag 120

tataatagaa gaagaagaag aagttgttcc tccaactgag aatcctcccg tggagaataa 180

cttttacttt gacatctgtg gtgaaaaagt tgctattcct acgacacatg gattgagagt 240

catggcgggc accacaccag ggtacaccta catcagcgt tggccattgg aaaccgcca 300

ggagacatca ccggggtaca cggaaatcgt tcgaggcatc tcgaggcgtg tatgaggacc 360

attggatata aaattgctca ccggagttct 390

<210> 13689

<211> 420

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-053-Q1-K1-C6

 <400> 13689

 cacaacacca ctccaccgcc gttcgaatat tccaagcttg agattggagg aggggagggg 60
 aggggagccg agcgcagaac cctaattacc tccatcgatt gctaacagct cagatctcag 120
 aggcagggga ggtaaaatgc caagagcaaa tgaaatgttc agggcagatt ctagaatgat 180
 ggtggttttt ggtgccttga catcgaaacc agagcagctg acattcgaag aaaccctcag 240
 atttgtcaag aaagtgaagg cccgcgatta catgctatac ctgtcattgt tcgacattct 300
 tggcagaatg gaactatccc agctcgatgc ctaccgagag ttacagctgc tgtttggaag 360
 ccaccgggat ctgtgcgaag agctcgagaa gttcaggcca ccggtgccta caaagcaggc 420

<210> 13690
 <211> 417
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-053-Q1-K1-C8

 <400> 13690

 gcgcacctgt tcaagaacag ctcgggctcc aaggtcttga gctggagcca gaggtttggc 60
 atcgcagttg gcgtggccag ggggctgtct tacttgcacg agaagtgccg ggagtgcac 120
 atacactgcg acatcaagcc agagaacatc ctccttgatg aggagatggg cgccaaggtc 180
 gcggacttcg gcatggccaa gcttgctggc cagcacttca gccgcgttct gaccaccatg 240
 cggggaacga tgggctatct ggcgccagag tggctcgcgg gcgcgccggt caccgtcaag 300
 gccgacgtgt acagcttcgg cctgctcctg ttcgagctca tctcgggacg ccggaacaac 360
 ggctcctcgg aggcagggtc caactccgct gtgtacttac cgggtgcacgc cgccgtc 417

<210> 13691
 <211> 92
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-053-Q1-K1-C9

 <400> 13691

aggagaagtg caaggaatca ggctgccttc atgggtcaatg gtcactcggg acagtgcgtc 60
aggctctatg gtgagatcac cataattgga tt 92

<210> 13692
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-D1

<400> 13692

cgagaaatth actccttcgg ctgaagacct gccaggtgcc ttcgagcata tcgaaggtga 60
aattgatgac tgaaagggaa ttaggcttac acctagtacc taattaatth tgggtggtga 120
attgccaac acaaacaatt ggactaacta agtttgccca agtttataga ttacacaggt 180
gtaaaaggth cactctcagc caataaaaag accaagttth ggattcaaca aaggagcata 240
gtgggaaccg aaggccctct agtctgagag caccggactg tccggtgtac accggacagt 300
gtccggtgca ccagaggact ccagctccaa ctgccacct tccggaatth ccagaggcga 360
ctccgctata attcaccgga ctgtccggtg tacaccggac agtgtccggt gcg 413

<210> 13693
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-D11

<400> 13693

actcggtcgg aattcccggc gaagctttcg caagctggcc agctagctcc ctaccgactt 60
tattctcgag gagtgacgga tcaggatggg aggggggacc tcgagtgtgg cggcgaagat 120
ggccttcttc ccgccgacgc cgcgctcgta ctgctgggtg gaggacgccg gtgctggggt 180
caccactctc agcgtccagc cgcaccggga gaacgtcgag ttgctgcgct ttcgcacca 240
cacagggaac acgctggcgg cgatgtacgt tcgccaccgc gacgcctcgt tcacagtgt 300
ctattccac ggcaacgtcc tggacctggg ccacctctac cagctcttcc tgcactagt 360
cttcaacctc caggttaaca tcctcgggta tgactattca ggaaatgggc aatcatcaag 420
aaaggtatga tcaaatct 438

<210> 13694
 <211> 269
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-053-Q1-K1-D12

 <400> 13694

 ccggcgaagc tctctcaagc tgggcatcta gctcattacc tactttactc ctacgagata 60
 cggatcaaca tggggggggg taccttaagt atatcggcgt cgattacctt cttcactccg 120
 actccaacct cgtacgctct aatgcatgac acatcacctc cattgaaaaa actcagcaca 180
 taacaggacc tcaagaactt agtactgctc ctcttcatca cccactttgg taacactcat 240
 gctaaaatat acgctcgcca cacactctc 269

<210> 13695
 <211> 357
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-053-Q1-K1-D2

 <400> 13695

 cttgcaaaac cgtatttgcg atccacacct agcaggcgag gttagcactc ttcctgggga 60
 catggatgac taggagcacg atgtgttcag acataagatt taagttgacg gcgaggacgt 120
 attcatggat gccgacgact atgctaccta actgcacgaa cttgtctata tgaaacacct 180
 gctcaaggat atggatgagg aggtcgacag actacgtgag atgcacgcca aggggtgccta 240
 ggagatacca ggtgtacatt agtatgcaag cacatgtgtg tacagtgtag agatggaatc 300
 tgggccagca tcattggaaa tgttgtctat gcgtgcactt tagaagatat gcagaag 357

<210> 13696
 <211> 342
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-053-Q1-K1-D3

 <400> 13696

 cttgcaaaac cgtatttgcg aaccactact tatcagccga cgttagcact cttgctgggg 60

ccattgatga ctaggagcac gaggtgttca gccataagat ttccgttgac tgcgaggacg 120
tattcatgga tgccggcgac tatgccacct aactgcagga acttgtctat atgaaacacc 180
tgctcaagga aatggatgag gaggtatacg gactccgttt gatgcacgcc aaggggtgcct 240
aggggataca aggtgtacat tcaaatgcaa gcacatgtac tttcacatgt acaatggaca 300
gtgggccatg atccattgga aatgtggtct atgcctgcac tt 342

<210> 13697
<211> 418
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-053-Q1-K1-D4

<400> 13697

caacaagaga tcgatggcct ctgccaccgt gctcaagtcc tccttccttc ccaagaagtc 60
cgaatggggc gccaccaggc agggcgctgc gcccaggccg cccaccgtct ccatgggtcgt 120
ccgcgcctcc gcctacgccg atgagctcgt gaagaccgcg aaaacgatcg cgtcgccggg 180
gcggggcatc ctggcgatgg acgagtcgaa cgcgacgtgc gggaagcggc tggcgtccat 240
cgggctggag aacacggagg ccaaccggca ggcgtagcgc acgctgctgg tcacggcgcc 300
gggcctgggc cagtacatct cgggcgccat cctcttcgag gagacgctgt accagtccgn 360
cgtcgacggc cgcaagatcg tggacatcct ggcgagcag ggcacgtgc cggggatc 418

<210> 13698
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-D5

<400> 13698

gcgcaacca acccgccgtt cctccgcctc ctcccgaca gcaaaatgga gacctgcgtc 60
ctccccacca cgctccccac cgcaaagccc ctcccgcat tccgaacca cgctgtagcc 120
gcatcgaaac ttccccaaaca gcgccctcgc cgctgcacca tacgcgcggc catcaccggt 180
ggccgcaagg aggagacggt gaccaccgtc cgggagcagc tggagggctg ctacctcctg 240

gctggtatca agtacgaggg cctgacggtg aagcagctgc agggaatccg cgacgcgctc 300
ccagagacct gcagactgct ggtggcgaag aacactctgg tggggaaagc catcgagggc 360
accccttggg aagcgctcaa gccgtgcatg aagggtatga atgcctggct cttcgt 416

<210> 13699
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-C12

<400> 13699

tgatatcttt taatcacttg ttgtacagta ccaagaaaat tgattcgggg gggcaattct 60
atgacaagct tcttgtcaat caacagaatg agaactacct gatattcgat gatcgatcac 120
ataatctaaa agacaactgt gtctacaata ctatgacccc ttctggacga atctaacagg 180
atgagatcaa cctattgaca gcattcacia tcattaccaa gtctgcatgg atcttcacca 240
gtaagcttgt gacttcattt gaagaccatt cgctctggca taattattgc tgcaccaccg 300
atagttacat catgagcgat cagtatctca gtatctagta ctg 343

<210> 13700
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-B1

<400> 13700

ggagtccgga gtccgacctc gactcggcac gcttccgcgg ctccgcgccc aggccaaggt 60
gtgtcttcca gtctccacgc tccagagacc acatctctct ctccatggcg acggccatct 120
cgctcccgcg cgcgcgctg atcaactccc gcgcgtgcac cccccgccgg cttgtccaag 180
tgtcggcggc gcgcgcctct cccccgcgcg gaggagggcg cgctcggtcgc cgctccccga 240
cggccccgcg tgtagcggga gcctcctcct ccggcttggc tccggacaca agcgtgccgg 300
cgtgggacgc tctcggcggc gtctccgtcc tcgccgcggg gacaggcaac gctgtggcgc 360
tgacggacct gtgggactcc gccgaggggg tggccgtggt tgcgctgctg 410

<210> 13701

<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-B10

<400> 13701

attttattat ggtgacaatt cattgttgcc gtgagccgtg agcgtgacat tgttgtgcgc 60
cttcactgc cagtaatgga agcaggcgcc ggggaagcag cagcaagcgc accgcgcaga 120
ctgaccctgc cgtggaaggt gcggtcctctg ctctcttgcc tcgatgtcgt tgccggtctc 180
tcgatgcgtc gcgacggcac catcaaccgc tccatcttca acctcttcga ctttcgtgcc 240
accgccagca cgcgcccgga caggcagggc gtccggtccg ccgacgtgga cgtggacgtg 300
gacacgtcga gcggtctgtg ggcgcgcgtg ttctggccgt cgccggaggc gtccgcggcc 360
ccgtccctg tcgtggtcta cttccacggc ggcgccttca cgctgctctc t 411

<210> 13702
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-B11

<400> 13702

cgcttcgtga cttctctctc ctctcgatcg attgcttget ccaccgaggc gggggaaagc 60
gccgcccaga tcgccgtagg caagcggcga tcaactccagc tttagcata agtttctgca 120
cggaggctcg tgaagtcagt agtcgtatct ggcagtggca gcacagcgca ccatggaatg 180
gctgagctgg agaacggtgt gttgtttatc agtgctgtgc accgtgctgt tcttgcgccc 240
ggtcgagggc attcgctttg cgatcgatag agaagagtgc ttctcgcata acgtggagta 300
tgagggggat actgtccatg tctcttcgt cgtcatcaag gctgacaccc cgtggcatta 360
cagcgaagaa ggcgttgatc ctgtggttaa ggatcctaata ggcgc 405

<210> 13703
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-B12

<400> 13703

caagtgcata tcatacacia tgggtggagg tggaaagatt ccgtatccca aggaagtttg 60
gtcaccgcgc ggtggttggg acgcccagcc aggctattgg aaggccaaca ctgcatcat 120
gggtgctttc gtgatcgggtg tcgctgccgt cgcattcagc atcagcgccg accgagagta 180
ccgtgaccgg atgcctgaac ctggccgatt attgcctagc cgatactgga gcctacagat 240
tcgcaaacac gaaaagcagc agggcgcgca aaactcctca tgaggagcag gtctacgagc 300
cggaaaagga cgaggggtgg ctttgccggc tgacagagca gtttccttaa tatgtgtctt 360
ctatcatttc atcattctct gtggctgtat gacaacgaaa agggcgtttt tt 412

<210> 13704

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-B2

<400> 13704

gtcgacgata gtctcatata gactgagtaa aggttttacc aacactgtac agcacgctgg 60
tgcathtagt gaacatctgg ttggtgaaaa gagggcctta tatgactcaa gcggtcgata 120
tgtgtaccaa attagccatt catctctaca tgttctagct aaggggcaaac tcaatgagga 180
aaattttcaa gatgcagaat caactaatca gctggattct gatgctgctg tgccacatca 240
tattagttgg gatgctccta agcctactct gccaaactgat tgtgaacacg atcctgtcgt 300
accatgttcc gtctgctctg tggatgcgtc ttacacggaa actattatcc cgagcacaca 360
gattagagac attgctagta gtacagagag 390

<210> 13705

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-B3

<400> 13705

gtagaccaca gtcttaccta gagtgatcta cgtgtttcac caactatata caacaagggg 60
gaggctccat cctacttcag ggtggtcata cgaattcggt atattcacac aacagaatat 120

aatttactac gaaggaagat attgctattg tgctcatcag gcaatatatt gtcaacatga 360
taagggtttct ggtggatagc tacgacaagc ccgtacctgc tattct 406

<210> 13708
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-B6

<400> 13708

ctgctcagta cgcacccgct cccactacta gattcaggtg agctcatcat tagtgccccg 60
gcccttggtg cgggtgcggcc aacggccatg gcgaagcttg ccgtgcagct caagagcaag 120
ttcttttgcc tggtcagacg catcatcagc tgtggccgct cctgcgccac ccacaaggat 180
gccgctggtg cgacagatgc caaatcatca gtgggatccc agcctgtcga gatcagggtca 240
aggggaggtg ctctctccag tgatggacga gccaaagggtc acatcaacag tgacaccatc 300
tagaggatag ggagaggaga agagaagaga tcgaatagaa gagaataagc tcaccgatag 360
ttaccatggt tgaaagaact gacgctgtga atcacagtcg tagttgcttg agtgtgtgt 419

<210> 13709
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-B8

<400> 13709

aacagacgac ggaagctcct cctcctcctg catgagagag atctagcata gcataggctc 60
ctttctgctg gcgggatcta cttttgatct gtaacttata acagaagatg aggaggcaca 120
gcaccttgct aaatgatgaa ctctcagaag ctgcagctgc ccgttcagga tctgatgagt 180
ctgataggga gatcattcat catcagcaag gtgatgatgc accagtgcac tgcagctgct 240
tcgtcgctgc cttcacctgc tctgatgct agaggcctgc aagttgctgc ccatcccagt 300
cccagcaaga ggcggtgtcc tcgtggcttc gttgccgcgg acggcagtga cgacgacgaa 360
tgcgcttcag atggtggtga gtccgagtcg tagtcgtctg gcgggaaaga c 411

<210> 13710

<211> 387
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-053-Q1-K1-B9

 <400> 13710

 ggaattgccg agcgagcgag cttgcgccgt gcgcgatgga ggggtgacgag aagtcggcgg 60
 gcggggcccc tgettactgg ggcctgggcg cgcggctctg cgacgcgtgc ggcgccgagg 120
 cggcgcgccct ctactgccgc gcggacgcgg cgttctctgt gcgccgggtgc gatgcgcggg 180
 cgcacggcgc cgggtcgcgc cacgcgcggg tctggctctg cgaggtctgc gagcacgcgc 240
 cggcggcggt cacgtgccgc gcggacgctg ccgcgctctg cgcctactgc gacgccgaca 300
 tccactcggc gaacccgatc gcgcgccgnc acgagcgctt ncacgtggca cccttcttcg 360
 gcgcgctggc cgacgcgccc aagccct 387

<210> 13711
 <211> 308
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-053-Q1-K1-C1

 <400> 13711

 acgagagaac tcgtcagata tttatgagcg cagccgcggg ttaacctttc cttctcgggtg 60
 ccgtgctcct ggctcgtgcgc gcgttcgcaa tcgcagcgct ggggttgagc cgcgagtggg 120
 taaaccctag ccggtggtgt agctggggtt gtggctttga tgccggcgac tgcccgtttg 180
 taccgccaat ggagtgaggt gacgaatgct gtcatgggct ctaactatgc cacgattgga 240
 ttataggata gtagctggca gctaccagtt tctagaacc aatttgtgga tagcgagagg 300
 cgtgactg 308

<210> 13712
 <211> 414
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-053-Q1-K1-C10

 <400> 13712

cagcaaagtt atcaaggaat gaacaatcaa cctcaaggag atctgataca acagatcctt 60
cacactttgg atcatctcaa agtgaacctt tggaagagga ccatgtgact ggacttcctt 120
ttgccatgat tgatgaaatc gctgatgggt ctctgcttc tgtggatggg ttgcaacttg 180
gagatgagat tgtaaagttt gggaatgtgg aagctgggtga tcagttgcag gaaaggctca 240
tgtctgaagc tctttccaat gaggacagtc aagtatcttt agtcatcatt cgccagggat 300
cagtggtgaa tttaacaatt acaccaagga agtggcatgg aagaggactt ctgggggtgcc 360
atttccgaat gctatgaaga gcccacgtt cttcatcagg atcgttggtc tate 414

<210> 13713
<211> 413
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-053-Q1-K1-C11
<400> 13713

agcaactgaa atcttttaag cacttggtgc atcgcaacaa gaaaattgat ttcacgagc 60
agttcaatga gaagctcctt gtcaagcaag agaatgaaaa cttccagata tttgatgtgc 120
ggagtcttga gctaattgaa gtcagtgtct ccaagtttat gaccccttca gcattcattt 180
ttctgtatga gaacaacctc ttcttgacat tccgaaacag aacagtcgct gtatgggact 240
tcagaggaga gcttgtgact tcatttgaag accatttgct ctggcataat gattgtagca 300
ccaacaatat ttacatcacg agtgaccagg atctcattat ctctgtactgc aaatccgagg 360
cagtggctga ggatgggtaca gttgttccag ttggatccat caacataagt gag 413

<210> 13714
<211> 414
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-053-Q1-K1-A8
<400> 13714

gccctaata tcgccgcaa ccggcatctg agccggctgc acccggtgta ccgcctgctg 60
cacccgcact tccgctacac catggagatc aacgcgctgg ccaggaggag gctcatcaac 120
gccgacggca tcatcgagga gtccttctgg ccgggcaagt acgccgtcga gctcagctcc 180

gtggcgtagc ggcgcacgtg gcagttcgac acggaggcgc tgcccaacga cctcatcaag 240
 cgcgggctgg ccgtgcgcgg ggaggacggg gagctggagc tcaccatcaa ggactacccc 300
 tacgcccacg actgtctcct ggtctgggac tccatcaggc agtgggcggt cgagtagctc 360
 aacgtctact acaagtaga cgaggccgtg gccgtcgacc ccgagctgag ggcg 414

<210> 13715
 <211> 378
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-052-Q1-K1-H1

<400> 13715

gtgagctccg cgtacggctc cggccatcac tctctgggt gtgtctctcc agcatcacga 60
 ctccatccct tcatgctcgt atctggagct cgctcggcct acagctcgt tgtaccccg 120
 ccgccgtggt gttcctgttc gtcttcagcg ccggtcgagc atcgccgctt gggaatggcg 180
 caggccatc ccgtctcgac ctctccagc tctccatcc cttggctcct ggcgctcgcc 240
 aagggcctct cttcatctt ttgtcgctc tcaactccca tggccgctc tacgcacgag 300
 ctgcccggac gccgcagcat atgtccctg ctgggctnc ccggcggtg gtcctctcg 360
 cttggcgccc ctgcgagc 378

<210> 13716
 <211> 383
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-052-Q1-K1-H10

<400> 13716

cagcagcttc tgcttgctct ggggggaagg agagagagag agcgagagag agagagagat 60
 ctagtagaga ggctagtagg tggctctcga acgaagatgt tggcggtggt cagcgggcag 120
 gtggtggagg tgccggcgga gctggtggcg gcgggcagcc ggacgccgtc gcccaagacg 180
 aaggcgctcg agctcgtggg gcgcttctg gccgcgtccg agccggccgt gtccgtgcag 240
 ctgggcgacc acggccacct cgctactcc cacaccaacc aggcgctcct ccgncccagg 300

tcgttcgcgg ccaaggacga ggtgttctgc ctgttcgaag ggggtgctgga caacctgggt 360
 cggtgaacc agcagcacgg gct 383

<210> 13717
 <211> 399
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-052-Q1-K1-H11
 <400> 13717

cggaacgctg ggatgatgat ggggtgttga acctctgaga cttgtatatt tgagaacctt 60
 atgtcttgaa ccaatcctac accaccctgc gagaaatgag agttcacttt gtttagacac 120
 taggaattgt tttgggtgac atcatttttc ttctttgaac ttttcaaggt tattgcttgt 180
 atagatagca aacgatgaca tgtacgtttt ctttcctttt tcagattttc ttttgtgaca 240
 ttattaacta ttatgtacta atgccggatg ttgaattaga attagaattt tatttgtact 300
 tatgttctca agcttacctg ccaggtcttg attctgacac cattcatggg tctgaacatg 360
 ttgacatctc ttactgtaac atttgatacg catgctttt 399

<210> 13718
 <211> 349
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-052-Q1-K1-H12
 <400> 13718

cccagagaccg acaagtgcaa ggtggactaa acatgtggcc acggttcttt ccacgacgga 60
 acgtacagca cgggcgctag ggttctttgc atagagaata atatacagat tattcgccca 120
 aagagacgta tggttatatat atatgagttg catgcagtca ccgaactggg acaggggttcc 180
 gatttacatt tactgatgag agtctcgtag tgtaatcctg gggagagtat ttgttgcac 240
 aatcatgact gccgattggg atctcggttt accagcatgg aagcattatc tgatttgggc 300
 atacaagtat aaacgcaact agcgatcttg gaaaaagaga aaccgaatt 349

<210> 13719
 <211> 384

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-052-Q1-K1-H2

<400> 13719

gtgagctccg cgtacggctc cggccattac tcctctgggt gtgtctctcc agcatcgca 60
 ctccatccct tcatgctcgt atctggagct cgctcggcct acagctcgt tgtaccccg 120
 ccgccgtggt gttcctgttc gtcttcagcg ccggctcgag atcgccgctt gggaatggcg 180
 cacggccatc ccgtctcgac ctctccagc tcctccatcc cttgatcctt ggcgctcgcc 240
 aagggcctct cttcatctt ttgtcgcgtc tcaactccca tggcgcctc tacgcacgag 300
 ctgcgcggac gccgcagcat atgtccctg ctgggcctnc ccggcgtgct gtcctctcga 360
 cttggcgccc ctgcgagctc ctte 384

<210> 13720
 <211> 410
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-052-Q1-K1-H3

<400> 13720

acgccgtcga gcttagctcc gtggcgtaag gcgcgacgtg gcagttcgac acggaggcgc 60
 tgcccaacga cctcgtcaag cgcgggctgg ccgtgcgcgg cgaggacggg gagctggagc 120
 tcaccatcaa ggactacccc tacgcccacg acgggctcct ggtctgggac tccatcaagc 180
 agtgggcgtc cgagtacgtc aacgtctact acaagtacga cgaggccgtg gccgccgacc 240
 ccgagctgag ggcgttctgg gacgaggtgc gcaacgtggg gcacggcgac tagaaggacg 300
 agccgtggtg gcccggtgtg gacacccgag acagcctgtt ggagacgtg accaccatca 360
 tgtgggtcac ctgcgggcac cactcggccg tcaacttctg gcagtaccac 410

<210> 13721
 <211> 235
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-053-Q1-K1-A11

<400> 13721

ggattccccg tgcaccacgc gtccggacgg tgctctaatac cgtcatactt ggtgggttg 60

aggtcgaaaag cggggagggga atataagatg ctggtacaag ctgtgggacg acgtggggcc 120

atacctcgcc cggagacggg cctgagaagc ttcgcagtgc caccaccgcc cgtccactcg 180

catcaacaaa gactcggacg gggcagctac atgcggcgca gtccatgcct ctacc 235

<210> 13722

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-A12

<400> 13722

ggcacaacga caacgcgaag atccaggaca aagagggcat cccccagac caacatcgtc 60

tgatcttcgc tggcaagcag ctggaggatg gccgcaccct agcagactac aacatccaga 120

aggagagcac tctccacctg gtgctccgcc tccgcggtgg tcagtaagcc atgggtcatt 180

taaactgctg ctgtacctgg gtatctgcgt cgtctgatgc cctctggtgt acctctatat 240

ggatgtcctc gtctaataaa catctgcggt ttgtgtgtca tgaa 284

<210> 13723

<211> 393

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-053-Q1-K1-A2

<400> 13723

cccgttgctc ctctcccgtc atttcatctt ctcttctagt cgtttcatct tccccggcag 60

ctttggcttc agtcacggc ttcgcaagtt cgcacgaat ccgtcgtctt ttgactgtc 120

accttcatcg ttgtccagt tgttcgtccc attccctcca tggacgcgat gtgactagag 180

gacggcgca ccgtacaact ttgtttcgat tcgtcggcgc cacagctttc tccatgcttg 240

taatgtagtg cacctgctga agaaggggaa aaacgagaga gagagagaaa agggaaaaaa 300

cgagagagaa atcgtccag tagcgcgcc ggagaaggta cctngctcgt ctcgggcgct 360

cggctgttcc gcttgttctc ttcttccgtc tct 393

<210> 13724
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-053-Q1-K1-A4

 <400> 13724

 atttgtttgt ggaaatttaa atgtgcatga atctggctac tgtaggctta cacaacagtg 60
 cagtctgttt ctgttaagga acgcaggaag gaactatcag agaccaacga tcgttgggtg 120
 gtgttggtggc tgtgcctctt cagtgtgtgtg ccccatcctc gtcggcgggc gatgccgtgt 180
 gagccgggta ccttcacatg atgtcagccc aggtgctctg cccgtccgtc acttccttca 240
 ccaccgagggc cacctcgtec acatgcacgc ggatctggtc cttgctgtca cgatcgcgca 300
 ccgtcacgct cgtgggtgtga tcaaccgtga tcgccagggg gacaccaatc tcgtccgtcc 360
 ttgcgtaccg ttttccctatt gtattacctg ttatgtcgat gatatgtgaa atcccagctg 420
 ct 422

<210> 13725
 <211> 379
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-053-Q1-K1-A5

 <400> 13725

 agtattatta ttattattat tattcggctc ctgctcatca gctgcagcag tcgtgctccg 60
 gaccggagaa gtcgaaatgg aggagaggct gttcgccacg gagaagcacg gtggccggggc 120
 gctctacagg ctccacgccg tcacggtgtt cctggggata tgcctgggtgc tctgctacag 180
 ggcgacgcac gtcccggctg ccggctccgg cggcagggcg gcgtgggtgg ggatgctcgc 240
 ggcggagctc tggttcggct tctactgggt catcacgcag tccgtgcgct ggtgccccat 300
 ccgtcgtcgc accttcacg acaggctcgc cgtcaggttc ggagagcggc tcccatgcgt 360
 ggacatcttc gtgtgcaca 379

<210> 13726
 <211> 381

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-052-Q1-K1-G9

 <400> 13726

 gagctgcgct tgtccggaga cggagccgac tgaacatggc cggagatccg ggggacgcgc 60
 cggagggtggg aggcggcggc atacgctccg tgctcaccac ggccctcgctc gtcgctccct 120
 ccggggacga ggttcagttt cgggagatcg acggcaagat catcggcctc tacttcgcgg 180
 caaactggta tccgaaatgc gaggctttca ccccggtgct ggccgcggcc tacgagcagc 240
 tcaaggagcg cggcgccggc ttcgaggctc tgctggtgct gtgcgacgag gaccggccgt 300
 cgttcgagcg gttccacgga accatgccgt ggccagcggc gcctttcggc gacctcagct 360
 gcaagaagcg cctcatcgag a 381

<210> 13727
 <211> 300
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-053-Q1-K1-A6

 <400> 13727

 agcattatga tcattattat tatteggctc ctgcttatca gctgcagcac tcgtgcttct 60
 gaccggagaa gtcgaaatgg aggataggct gatcggcacg gagaagcacg gaggccgagc 120
 gctctacagg ctccacgccg tcacggtgtt cctggggata tgcctggtgc tctgctacaa 180
 ggcagacgca cgtccctgct gtcggatacg gcggcagggc ggcgtggctg atgatgctcg 240
 cggcagagct ctggttcggc ttctactgtg tcatcacgca gtccgtgcgc tagtgcccca 300

<210> 13728
 <211> 338
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-053-Q1-K1-A7

 <400> 13728

 gaaataccca attcctcagg gtgaaatata tcatgtcatg aaccctgatc cttatcgggg 60

gacttttcggg tctgatgctg cagcttatgc taaggaagtc gaagaacaca taacttatgg 120
aagttcagga aggggttcag gcttcattgc agaaacattc caaggtgtgg gaggtgctgt 180
tgaactagct cctggatacc taaagtttagc ttatgacatt gtgcgcaagg ctgggtggcgt 240
ttgtattgct gatgaagtc atagtgggtt tggccgtact ggcagtcatt actggngatt 300
ccagacacaa ggtgtcattc ctgacatagt caccatgg 338

<210> 13729
<211> 341
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-052-Q1-K1-F4

<400> 13729

cgtcgggttc catggcggcg cgtcttcta aacccccgac accacgcggg cgctgccacc 60
acccgccc aa cgccaccgc cgctccacg tcgccaccg ctgcttcccc gaccaccac 120
caccaccgc ctccatgcc cgcacccga gtccgaacc tgtgctgtcc cttctctccg 180
cgggtgccga ctgggcccgc gccatccagg agcgcgcgt ccgcgaccgc cgcccgtct 240
acgaccacgc cacctggcgg caccaccga gctcccgcg ncacctgcgc cacctnctca 300
cctcgtgtc ctcccgcgc atcctctccc tggcgcccc g 341

<210> 13730
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-F5

<400> 13730

agggcaaaag caaaaggca tcaccgccgc gacgacgatg gcagcctcgc tccaagccgc 60
ggccaccctg atgcagccgg ccaagatcgg cggccgggcg ccctttgcct cgctgccgtc 120
ccgcccgtcg tcgcaactcg cctgcagggc gttcggcgtc gacgccggcg ccgccaggat 180
cacgtgctcc ctgcaggacg tcgccagcag gtgcgtcgac gccgcgaagc tcgccggctt 240
cgcgctcgcc accttggcgc ttctcgtctt gggcgccagc gccgaaggca cgcccaagaa 300
gctgacctac gacgagatcc agagcaaaac gtacatggag gtgaaaggca cgggca 356

<210> 13731
 <211> 398
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-052-Q1-K1-F7

<400> 13731

cacatcccag tcatccgtca caagctagat gccgcgctct gaccgtatga ccaggcttgt 60
 cccccagcag ctgctcgtgg tggctcgtcg agcagcagcc atcacgctcg caacggcatc 120
 ggcgggcgac gtggactcct tcagctaccc gaccttcgac gccaccacga cgcaggacct 180
 cgtggcgga acaaacacct ccatectgac gtcggcctcc ctctcttcg gccacgacgc 240
 cgacttcaac ttcaaccgca ccgagggtt catectgctc tcgcgcaccg tcgacgtctg 300
 gcgcgccggc cccggcgggc ggccggcgcg cgaggcctnc ttcaacacca gcttcgcgct 360
 gagcggcgcc gcgcccgtcg cgtacgtcgt actccgcg 398

<210> 13732
 <211> 336
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-F8

<400> 13732

cgcataccag tcattcggca ctagctatat gccgcgctat gaccgcatga cgaggcgggt 60
 cccaaagcaa ctgctcgtgg tgaccgtcgg agcagctgct atcaccatcg aacaggaata 120
 ggcggtcaa tgcgactac ttcagcgtac ccaacctgt gactgccctt ctctccagga 180
 cgtccgactg ggacgacacc attcatgagc acctcgctcg tgatcgtcgt ccgctataac 240
 accaagttac atgtcgacac caccgaaggc ttcatcgtga tctggggcac ctgctaacct 300
 cggtgtgctc tcgcgccata ctatccctgg ggcccc 336

<210> 13733
 <211> 170
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-F9

<400> 13733

ggctgggggc tacagcacac ctgaatctgg actagattac tcgacaatta cacgctccaa 60
ctcagcttac ggctgtagac tgatgacaca taaccatcac acggcatcca tccgaactaa 120
ccacctgtt aacctgatcc ctgcgtacc tagataacct aagacgcgac 170

<210> 13734

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-G1

<400> 13734

ccgcgagcag gggagactgg gagatacaga gaggagaggg agggtttcct caaagagacc 60
caaaccacag cagagaacac tagcggtccc tcaccagggc gtccatccca gcagccatgg 120
cgatggcgta caagatggcg acggagggga tgaacgtgaa ggaggagtgc cagcgctggt 180
tcatggagat gaagtggaag aaggtgcacc gcttcgtggt gtacaagatc gacgagcggc 240
cgcgcgccgt gctggtggac aaggtgggag gcccgggga agggtagcag gagctcgtgg 300
ccgcgctgcc cggcgacgac tgccgctacg ccgtcttcga cttcgacttc gtcaccgtcg 360
acaactgcca gaagagcaag atctttttca 390

<210> 13735

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-G11

<400> 13735

cgcagatcgc gcagcacgtc cagaagatga ccggcgccaa gaacgtccgc ctcaagacgc 60
agctcgaccc ggcgctcatc ggcggcttca ccgtgcagta cggccgacac ggctgcaact 120
tgatcgacat gagcgtccgg aagcagatcg aggagatcgc gtccgagttc gagttgcccc 180
ccgtcccgtc cgaagtctga ggccggcttg aggcgtccat tctcgccctc gaagctatag 240
ctgcggctac tgtctcaagg aaccaagcgg gaatgttggc actgtaccct tcagtcagac 300

ctgcggatca acggcgggtgg ctccaaatct ccaatactac tacatatgaa cggacactat 360
 ttttgtgcgt atctgttgac gggaacctgt gtagttcttt ctcctatfff tccct 415

<210> 13736
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-G12

<400> 13736

cccagagaccg actagtgcaa ggtgtactta gcatgacgcc acggttcttt ccacgacggg 60
 acgtacagca cgggcgcgag ggttctttcc atagagaata atatacagat tattcgccca 120
 aagagacgta tgtcatatat atatgagtcg tatgcagtca ccgaactggg acaggtttcc 180
 gctttccatt tcctgttggg agtctttag tgtaatcctg ggggtgtgat ttgtctcatc 240
 aatcatgcct gccgattggg atctcgtttc accagcatgg catcattatc tgattagggt 300
 atacaagtat aaacgcatcg agcgatcttg taaaaagaga aaccgagttg cagaggggta 360
 agggtttctc tccaagatac atatcttgga tagaaaattt catc 404

<210> 13737
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-G2

<400> 13737

cctccccaga gattaatggg gaaaaggaga aagaaactga agttgcagag aagagatgga 60
 aagtacttgt gtggaagact gctgtttatc ttatcactct cggtatgctc attgcacttc 120
 taatgggact gaacatgtcc tggactgcaa tctactgcagc tcttgttctt ctggcactcg 180
 attttacgga cgcacaagct tgtcttgaga aggtgtcata ttcactgctg atctttttct 240
 gcgggatgtt tatcactgtt gatggcttca acaaaacggg cataccgaac aactatggg 300
 agttagtgga accatattca cgaatcgata gtgcgaaagg tggtgcactt cttgccgtgg 360
 tgattcttat cctttcaaac gtggcctcta atgttcttac agtcctattg ctcggtacaa 420
 gagtggctgc a 431

<210> 13738
 <211> 383
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-052-Q1-K1-G3

<400> 13738

cttgggcgta cgcggacaca gccccgatcc gaatcgctct cctcgcgagc ctcgtcgatc 60
 ccccaactccc ctccccctcgc ttcaagatgc agatctttgt gaagaccctc accggcaaga 120
 ctatcacctt cgaggtggag tcttctgaca ccattgacaa tgtcaaggct aagatccagg 180
 acaaggaggg catncctcct gaccagcagc ggcttatctt cgccggcaag cagcttgagg 240
 acggccgcac acttgctgac tacaacatcc agaaggagtc aacccttcat ttggtgctgc 300
 gccttaaggg aggcattgcag atctttgtca agaccttgac tggcaagaca atcaccttg 360
 aggtggagtc ttcagacacc att 383

<210> 13739
 <211> 194
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-G4

<400> 13739

cggacgcgtg gggaagaaaa tgatccatgt aaattctctt gttcgtaata cggctatagc 60
 aataattctg tgtcaacttt gctcgtgctg ttctcgggtg gtttagattt ttatagtatg 120
 tgtacttggt atagaatttc tgtagagcag cttgtttgtg tagtctaata ttttataata 180
 atcatactag cagt 194

<210> 13740
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-G5

<400> 13740

agaaaatggg attgctgtat atactatctt ggaggtatat agagtttcag atatggagct 60

tgtgagagtg cttgctagtg ccgaagatga agtcaatggt gcatgctttc atcctttacc 120
aggacgtgga cttgtttatg ggactaagga aggggaagctc aggatccttc aacacaatgg 180
cgcagacatg ataaacatgg ggtcgggttg cttcattgac gaaaatatgg ctgagatcca 240
gaggtatgca ttggaatgct gaataagctt gaccacatca tgtgaatttt aggcttactt 300
ccatgaaaga cttctgtgca ggcttcatct gtgtgatccg ttcaaggga aacattagat 360
gcatctgcaa ctacattaga acagataatt ctcaatgggc t 401

<210> 13741
<211> 423
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-052-Q1-K1-G6

<400> 13741

gtcacacacc tcacagagct gcagcagcat cagctgccac ctctgcttc tctccttcc 60
ttctgcttg cataggttgt tgctacacgt atatattctg aagaagagat cgagatgacc 120
agcgtgtgga agaccaaggt tctgcctggc ctcaacaaga tctttgacaa ggatggcaag 180
aaggctgcag ctgcaggctt cttgaagtcc ttcaacaagg aggagattga caaggagatt 240
gaggacaaga agacagagct ggagcccaag gtcgtggagg cctacgaagc atctcctct 300
gaggtcaagg ctctgttcaa ggataagaag ccagtcaagg tcagcaagaa gaactcggct 360
gcagtcacca agttcctcga tgagctggct aagattgact tccctggagc caangtgggtg 420
agc 423

<210> 13742
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-G7

<400> 13742

aggaaacggg acacatagat atactatttt gaaggacat atagtgtcac atgtgcagct 60
ttgctagatg cttgctatgg cctacaatga agtcaatgtg aacatgatat atccattacc 120

aggatgtgga ctacgcatat gggactaagg actgaaagcg aatgatactt gaacacaatg 180
gagcgtacat gataaacatg gcgtgaaggt tgatacattg aaggaaatat ggttgagaac 240
cagaggcatg cataggaatg ctgaacaagc tggaccacat gatctacaat agcaggctta 300
cttacatgaa agacttgat gcaggctaca agtgtgtgat cegtacaagg aaaaacatta 360
gagccatctc caagtacctt agagcacata attc 394

<210> 13743
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-G8

<400> 13743

cccacgcgtc cgagtgggtg cgccaagccg ctctcgggtc cgctgcaggc atgggctcgc 60
ccgccgtctc ccgccgggtc ccgtctcccc cctcgttct gcgccctga cacctcccga 120
gctctcaccg gcgccgtcga gagcccaggc cagtctcagt ctgacgacgc cccgccacca 180
cgctcgggtg aggccgcctc gtccctggcg ccgcgcgcga gctcgcattc cgaccgatgg 240
tcccgggtcgc gggcgctgcg gtcggggccac cggccggcgc tgaaccgcgc ggctctctcc 300
tcggcctcgg tctcgggcgc gccgggtgatc aagtcgccgc ggcccagga cgctgccgtg 360
gcggcggaag atggcgagga cgacgacgtg tgcc 394

<210> 13744
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-F3

<400> 13744

gtgcggacgc acagactcga tgccgcttgc ttctaccgtg gccctgttcg cctgaccggt 60
gcgaggacgc ctgccagggc gctctcggca gtctttgatt ccacgcatga agagccccgc 120
gcggtgcgcg ccgcacggat atggcggcag cctcatggct gaacggcgct caggcgatcc 180
gaacatcata gaagacagaa gcgacacata acaaccggac agggccacaa ggaggtctct 240
atctgggata accacccaaa ttacaactca agatgcaaac attattgatc aatacggatc 300

acctgggtctg ctaaattgttt ttatggaaag aaagcaacgg ccaagttctt ggagatggat 360
gccaatgc 368

<210> 13745
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-D9

<400> 13745

ccggggccgac ccactcgtcc gcacgcgcca gagtgcacta ccccatcagg ttcacattca 60
ccaccggccg caccctccac cagcttcgga tccttccaat tgatgctact ctcccgcacag 120
catgcacgct tctactaat ccgcctcgcc ttcctctgcc agccgagaac gccccgaaga 180
gtcacggccc acacgccagc cgctaaagac ctgccgtaca ccgacgccgc cgacactact 240
gggacgtcca ctcgaaacgc ggagactaac cccaagtaca acaactacca caacgcgacc 300
ctcacgacgt aaatgctgca tcaccagctg accggccccg tcgacaacga gatgaccatc 360
a 361

<210> 13746
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-E1

<400> 13746

caaaaatgaa tggcacaggc catcgataga ttgattcatc cactgatgac gatacatgcg 60
tctgtgctta gtttacatcg accgcttaca gcaggcagcc attgacattg attgatgagc 120
acacatcgat catgagcata cgccggctgg tgcaactact acacgcctac gatctgaaca 180
agtagagtac agagaagacc aactgttca ctgcacggac ggacgaacga atggatggat 240
ctgatggtag tacacatgta cggcgcttgct cagtcagtta gttgccgggg acgaagttcg 300
tggcgtatgc ccaggcgctt ttggcgacgg ggtcggcgac gtggtcgaag aggttctcga 360
tggggccc 368

<210> 13747

<211> 411
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-052-Q1-K1-E11
 <400> 13747
 cccacgcgtc cgctacttcc catacccata ctttgtgtcc ttgatccatc tagtagtggg 60
 tgtcgtatac tgccatca gctggagtgt cggctctccc aagcgagcgc ctatcaatgg 120
 cagcgtcctc aagcttctct ttccagtcgc cctgtgccat ggtattgggc acatcactag 180
 caatgtgtcc ttcgctgctg ttgcagtctc atttgctcac actatcaaag ctctggagcc 240
 cttcttcagc gcagcggcta ctcagtttat ccttggacag caagttccct tctctctgtg 300
 gctttctctt gcccctgtgg tcattggtgt ttcaatggca tcccttactg agctttcatt 360
 caactggact ggcttcatca atgccatgat atcaaacatc tcattcactt a 411

<210> 13748
 <211> 422
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-052-Q1-K1-E12
 <400> 13748
 ctcaggcgca aggagagtgg gtcgtctgcc gcgtcttcca gaagggcggc tacaggccga 60
 ggaggaggca gcgagaagcg tcgccgccgc cgtccgctag cagcagctgc gtcacggatg 120
 cgtcgagctc ggacctggac gaggtcagca gctagcttag ctagctagct agcagaaccg 180
 accgtacgtg ccggctggcc acaacatgca gtcaagaacg tacgtacgta tatgtatacc 240
 gccaccagct cgtcgcgcgc gcagctgtgc tgtgcatgcc gtacgtgtgc ggtcggcctc 300
 gacctcgatc tcgaagagag gatgtgatca agctgagtta cggataacgg ggaacaaccc 360
 attcacacgc acttttactc cgagccaaca ttatttggtg gtaactagnt tttcttttct 420
 tt 422

<210> 13749
 <211> 206
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-E4

<400> 13749

ccatactata gattgcttaa ttcgctgggt actatacatg cctggggcgt tagtttacat 60
cgaccgctta cagcagccag ccatatacat tgattgatga gcacacatcg atcatgaaca 120
tactccggct gctgcaacta ctacacgctt acgatctata acaagctaag tacataaaag 180
accactctga ccactccacg tacaga 206

<210> 13750

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-E5

<400> 13750

ggacgcgagt gagtgaacac cagccgtatt gtcccgaccc cgaccgatcc tcgcctgctg 60
cagccatggc gacctccgcg gcgctctcca ccgcccga tcccacccag ctctaccggt 120
cccgcgcttt gctgggcaag ccggtgaagg ggcttggcct gagcatgggc cgcgagcgcg 180
cccagcggag cattgtgtgc caggcggcga gcagcatctc cgccgaccgc gtccccgaca 240
tggaagaagc gaagctgatg aacctctctc tctcggcgcc catctcgttg cccaccgtcg 300
gcatggctcg cccctacggc gccttcttcg tccctgcggc ctccgggaac gccggcggcg 360
ggacctacgc gaaggacaag ctgggcaacg acatcacggt ggaggcgtgg ctcaacacgc 420
acggtcccaa 430

<210> 13751

<211> 427

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-052-Q1-K1-E6

<400> 13751

ggacgcgagt gagtgaacac ctttcgttgt cccgaccgga ccgatcctcg ctgctgcacc 60
atggcgacct ccgcggcgct ctccaccgcg caatcccacc cagctctnac cggctccctgc 120

gcttttcttg gcaagccggt gaaggggctt gcctgagcat gggccgag cgcgcccagc 180
ggacattgtg tgccaggcgg cgagcagcat ctccgccgac cgcgccccg acatggagaa 240
gcgagctga tgaacctctc tctcgggcgc catctcgttg cccaccgagg catggtacgc 300
ccctcggcgc cttcttcgcc ctgccggctc cggaacgccg gcggcgggac ctacgcgaag 360
gacaagctgg gcaacgacat cacggtggaa gcgtgggtca acacgcacgg tcccaacgac 420
cgtacgc 427

<210> 13752
<211> 314
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-E9

<400> 13752
catcttcctc gatctcccta gctcgtctc caatctccca tttctctctc tctctctcgt 60
cttcggcatc catccatcca tcccgtcgtc gtgatagatg gcggcaggcc aaccgtccgt 120
ggagatgacg acgcaccagg ggccgccagc tgccacctat tctcggcca gggatggcgg 180
cggcggcggc ggaagaaccc ccaaggagaa gaaaaagccg cggggatcga caaccggctt 240
tccaatcagg gcgacccgga acgccaaggg ggggtactcc gccttcacca acgtaccggc 300
catggccggg gccg 314

<210> 13753
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-F11

<400> 13753
catggcggcg gaggggaaga ggaaggcggt cccggcgcta ggggtgtggc tgatgctagt 60
cggtccctc cgctcgcct ccgtctggtt cggcttcttc gacatctggg cgctccgcgt 120
cgccgtcttc tcgcagacgg agatgactga tgttcatggc cgtacatttg gtgtctggac 180
tcttttgacc tgcaccctgt gcttcctttg cgcactgaac ctggaaaata ggcctttgta 240
cctggccacc ttctatcat tcctctacgc tcttggtcat ttcctcacgg aatacttgat 300

ataccacacc atgctgcag caaatctgag cacagttggc ttctttgcag gaacgtcgat 360
aatatggatg cttctgcagt ggaattctca tgggaacccc cggggttcct atgctgggaa 420
gcagtcatga ctgatg 436

<210> 13754
<211> 405
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-052-Q1-K1-F12
<400> 13754

aagaagacga gtgtcaagtg aacctgaaac ttgcggtgtc actggctggt agcctgagtg 60
tgagtgagtg atcgagctag ctgagctccg atcctcgcta gctaggatac cgccatacca 120
caagtcttct tcacaagttt aggagtgaca gcaacaagag atcgatggcc tctgccaccg 180
tgctcaagtc ctccttcctt cccaagaagt ccgaatgggg cgccaccagg caggccgtcg 240
cgcccaggcc gtccaccgtc tccatggteg tccgcgctc cgctacgcc gatgagctcg 300
tgaagaccgc gaaaacgacg gcgtcgccgg ggcggggcat cctggcgatg gacgagtcga 360
acgcgacgtg cgggaagcgg ctggcgctca tcgggctgga gaaca 405

<210> 13755
<211> 421
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-052-Q1-K1-F2
<400> 13755

gcccggccgc acagactcga tgccgcgagg tgctacggtg gccctcttcg ccggtccatc 60
gaggaggcct gccgtggtgc tctcggcggg ctttgattcc acgcaggaag agccccgggc 120
ggtgcgcgcg gcgcggatth ggcgggcgcc tcatggcatg aacggggctc aggcgatccg 180
aacatcatag aagaaagaag cgacacataa caaccggaca gggccacaag gaggtctctc 240
tctgggataa ccacccaaat tacaactcaa gaagcaaaca ttattgatca atacggatca 300
cctcgtctgc tagatgtttt tatggaaaga aagcaacggc caagttcttg gagatggatg 360
ccaatgcttc cggttntgct gtcggagcga atcatgagga aggaaggaaa cgcatggatt 420

<210> 13756
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-D8

<400> 13756

cccacgcgtc cgaacgtgct cgatcttcat ctcgaccgtc gctcaccggg aagctacgct 60
acgacgaagc atggcgctccg tcaccgcccg cgccccggtc gcggccctgc gcccgtcggc 120
gtctctcaag tcgtcgtcgt cgtcggcggc ggccttcctt ggccactcta gccgcctcgg 180
ccgcactgct accgcgtcgc cgacgaggcg cagcctaaag gcggaggcca agggcgagtg 240
gctcccgggc cttccctccc ccgcctacct cgacggcagc ctgccgggtg acaatggctt 300
cgacccgttg ggctggcggc aggacccgga gaacctgagg tggtagctgc aggcggagct 360
ggtgaacggg cggtgggcga tgctgggcgt ggccgggatg ctgatcccgg aggtgctgac 420
caaggtcggg ctgatcaac 439

<210> 13757
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-C2

<400> 13757

ctgtggatca gaaactccat ccgggacatc gtttaccagg tccggcgggc aagcgagagg 60
gtggcatcca agaaagtgtg cgtggtcggc gctggcgtgt cggggctggc gtgtgcccgc 120
gagctgctcc gcgagggcca cgacgtgacg gtcattggagc agagcggcgg cgtcggcggg 180
caatgactgt actaccgag ggccggacggc ggccgaccaa ctcgcgctgc cggcgcgcac 240
agcagcatgt acacgtgcgt gcggctcatc agccctaggg agtcacggg cttctccgac 300
ttcccccttct taccagaga ctacggtacc ggccactgcc ggcggtaccc agggcacgct 360
gag 363

<210> 13758
 <211> 367
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-052-Q1-K1-C3

 <400> 13758

 gcgctacttt gttcaaaatg gtgttggttac ggatgagtgt gatccatact tcgacccggt 60
 cggttgcaag catcctggat gcgaacctgc ttatcctaca ccaaagtgtg aaaggaattg 120
 cagggggccaa aaccaagttg gccagaaaag aaagctttta accttggtgc ctaccgaata 180
 aattcagatc cacacgtgat tatggcggag gtgttcctaaa atgggcctct ggaagatgct 240
 ttacacttt acgaggattt cgcacactac aaatctggag tgtacaagca cattaccggg 300
 ggcattatgg gtggccatgc cgtcaagttg attggatggg gaaccaccga tgctggagaa 360
 gattact 367

<210> 13759
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-052-Q1-K1-C4

 <400> 13759

 gcccgcccga acgggtggct ggggcgcgtg caatcgcctt atccccccgg cccgcccggcc 60
 cgcgcccaaca agcgcaagca gtgaacacgg cgcctcctcg ctgcgcggc cagcccccg 120
 tcgtcgtctt ctcccgagc gtactacagc gcataaatac gcagcaccgg cgcccggtc 180
 ggttcccgtc tggccacca tccgatccca cccggcagcg gcgctgcgca atggccaccc 240
 acgcagctct cgccggcttc cgcacccccg ccggcgccccg gctgcacagc agggcgccgg 300
 cgtcgttcag gcacggcgtg cagaggctgg acttcgccga cttctccggg ctcatgccgg 360
 agtcgtgctc cgtgagcgtt gccgcgcggg aggcg 395

<210> 13760
 <211> 369
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-052-Q1-K1-C5

<400> 13760

ctcgatcgcc aataatggag tttccgtacc agcaccacca ccacggccat cgccgggacg 60

acaacgaaga cgaccgcaaa ggccccgcta caccggtgta cggcggctac ggccagccac 120

cgccacccga cccgtacggc cacgcgcacg tcgacccgga tccgtacggt cgaccttcgg 180

cccagtccgc gtacggtggg gccggggacg cctacggcca cagcggccaa ggctacgcgc 240

cccggtcggc ctacggcgcc gagtacggtt acggcaacgt cgtccacgtc gcgcacgagg 300

tcggccacga gaggccttac tacggcggtt gctgcgggcg tcttggtggc ccctacggag 360

gcggtggct 369

<210> 13761

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-C6

<400> 13761

aggtacgcaa ggcacagccc aagaccaccg caccgcacct gcacaccgac agggatggcg 60

gcaaccgcgc acctcaccgg tgtcctcggc gtgtcgtcgc cggctctcgc tccgtcccac 120

tgcagctgca gcggcgccaa gaagcacagc tgctctctgc gtcagggggcg gcagcagagg 180

aggcgcctcc gcgtcgcccg cgccgtcgag gtggacgcgc cttccgccgg cgcaccggag 240

cctgaggagg ccgaggagcc gtccgtcgac ttcgctttcg tcagcccgcc gctgctgccg 300

gacgggacgc cggacgtgca ctaccggacg gcgcgcggcg ggcagaagct cacggacatc 360

atgctcgaca gctacatcga cctctacggg ccctacgata aggttcttct caactggctc 420

aggggcggcg tg 432

<210> 13762

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-C9

<400> 13762

ggcacggcac ggacggcacg accgagctcc agtctgcccc cgcccccatc cgcacgtccg 60

ccttgatccg gcaaattggcg tcgccggcgc ggccggctcct gcagaccaac tccgtgcagt 120
 acccgacgct ccccgcggcc gacccgccga gcccgctggc cgtcgactcc gacgtgggtg 180
 tcatcctcgc cgcgctccta tgcgcgctca tctgcgtcgt ggggctggcc tccgtggccc 240
 ggtgcgcgcg ctccccgcgc gcgccgcgcg tcgccaggag ggggctcagg aagaaggcgc 300
 tcagggcgct gccgagcctc gcgtacgagg acgccgtggc ggccccggcc gcggacgggg 360
 cggcggaggt cctggcggag tgcgccatct gcctctcgga gttecgccca cg 412

<210> 13763
 <211> 411
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-052-Q1-K1-D1

<400> 13763

ccgacccccct ccgtttgcca acgactcccg gctccactgt cgctcccgt cccttccttc 60
 ccacgcaaga caatggtggc cgatcgcttc cgcctcgcgc tgctgctctc cgcgtgcttc 120
 tgctccgcgt gggcgcgccc acgcctcgag ccgaccatcc gcctgccgtc cgagcgcgcg 180
 gcggccgacg acgccgtcgg gacccggtgg gccgtgctca tcgtcggctc caacggctac 240
 tacaactacc gncaccagge ggacatctgc catgcatacc acatcatgaa gaagggcgga 300
 cttaaggacg agaacatcgg tgtcttcatt tacgatgaca tcgcgcatag cccggaaaat 360
 ccgaggcctg gtgtcatcat aaatcatccc cagggtggcg acgtctatgc t 411

<210> 13764
 <211> 355
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-D10

<400> 13764

ccgatccgca tctccgatec gcctctccgc ttagtatata catggggatt ggtagcgagc 60
 gattgattac actgggtgac catcatcatc agtaactaat aattacttta gattagaagc 120
 aaaggggaagc gaagcaagaa tcgatcgagt cgagaagatg gtgcagttcg gcaagtggct 180

gaggaggcag atcgagcgga gcctcccga gtggcaggac cagttcctgc gctacaagga 240
gctgaagcgg tgcgtcaagg cccgctccgg cggctgcccg ccgttgcccg cggaggaggc 300
cgagttcgtg gccgagatcg acgcggagac cgagaagatc aacgccttct tcctc 355

<210> 13765
<211> 439
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-052-Q1-K1-D12
<400> 13765

gccaaatctt gcagtgggtg gagggattca tgtgtattgc aagccaaagc tcctctcccg 60
ctgccactaa gttggcactg tccagagctg tgtgcgctgt cttcctgtgt ttgtgatgac 120
cacagccacc aaattcacca caccatagct agaacattct agggagttgc tggcccgtat 180
gaagcttggt ccgtaatcat ctcaaacgc gaagaagaag tggaagtcac tgaagagaag 240
acaccaccac cctcggattc tcgggcagga aactgcttct actttgatat ttgtggatcc 300
gagcctgact cacctactaa caaaggtgaa gaagcgacaa atttttgttg cttttgctcc 360
aagtggttat caaatgaaga aaaacaagag tgaagatgcn ggaggacgtg gtcctccata 420
taagatcttt ttggtttaa 439

<210> 13766
<211> 383
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-052-Q1-K1-D3
<400> 13766

cgcgccgtcg tcgccgtcgc ccgcaagcgg cgctccggac tcgcccttcg gcgcagcgac 60
gacgcccagg ggagagggct ggaagaagct gcgccgaaa ggcaggatgg ccgacggcgc 120
cgacgcccc ggacgcgcca ggagccccac tgtgtacgac tgggtggtga tcagttcgct 180
ggaccgctga agcagccggc cgggccaaga cgaggacaca gcacaaggat ggaggaagcc 240
agccaccatc agcagcagct agcggactga aggaggatcg gaacagagag gcccccccg 300
ccatgcgacc tgcttaacag agcttctggt cacggttctg ttatactacg cgttaacggt 360

gtatgtatat acgtcatctt cct

383

<210> 13767
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-D4

<400> 13767

caactccgac gagaaccgcc actcctcgaa atctcgaagg attttctgcg gcgaaccctt 60
tcgtgacgtg acccaatggg agaggcctcg ccgtcgatcg ccaaggacgt caccgagttg 120
atcgggaaca cgccgctggt gtacctcaac aagggtgaccg atgggtgctg cggccgcgtc 180
gccgccaagc tcgagtccat ggagccctgc tccagcgtca aggataggat tggctacagc 240
atgatcactg acgcagagga gaaagggctg attactccag gcgtgagtgt tctgattgaa 300
ccaactagcg gcaacacagg cattggactg gcctttatgg ctgctgcaa gggctacaaa 360
cttacctca caatgcctgc ctgcatgagc atggagagga ggatcatatt tgaggctttt 420
ggtgctgaac t 431

<210> 13768
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-D6

<400> 13768

gttggacgcy ttccctctct gcacgcaacc tcctctctgc ctccagatcc aggatggccg 60
ttctccttga gaccttgctt acccgagtgc tctcgggtgag ctactttgtt tcgatctatc 120
aggaaatccg tttgcttcat gttgtgcagg ctcatatctg attgctggat tcggcaaacc 180
cgcggttgat cctgtatcgg ttagtccttg cctgcaaggt tcttgctgtt ttgttttggt 240
ggtcgagcat cgcattgtct gcttctggat ccagatctgg agaaatcgcy aagtcgctgt 300
cgttcggttc ggagcggatc tgaagcgacg atagatggag gcggcgggat ctctcggtct 360
gcagtcctgc tccacctcga tggatgatgt ctctgcgctg ataattattg gatcaatgtc 420
gataattatt agtagatcta 440

<210> 13769
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-D7

<400> 13769

ggctccgtgg cttttgcctg tctgtggca gcgaatcgga gagcggaggg gaggggaaag 60
 cgcagcaacg ccggctagcg agcgggccgt tgcaggatcg caatgtgagc acgagcaggg 120
 acacacaaga tgcttcatcc tagctgggtc ggtgtctcgg cacacgtctc ggagtattgg 180
 tctgtgataa tcgccactgt tgttttcgca tttggtggcg cggtgacaat ttactataca 240
 gtcaatcagt tgaacaagaa catcagcttg agcctgataa gggctatcaa ggccagggcc 300
 aagaggtaca agaaatcgaa ggacaagggtg cccgctgcat cccacatctg gaggaagaa 360
 gttgtctccc gcaacaaagg cctgaaatgc 390

<210> 13770
 <211> 342
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-C12

<400> 13770

cgttcccgtt caaggccggc aagtaccata tgaagaagct gtgcctggag ccgacgtcct 60
 tcaccgtcaa ggcggagggc atcgccaaga acgccccgcc cgagttccag aagaccaagc 120
 tcatgacccg tctcacgtac acgctggacg agatcgaggg cccgctcgag gtcggctccg 180
 acggcacgct caagttcgag gagaaggacg gcatcgacta cgccgccgtc accgtgcagc 240
 tcccggcggg cgagcgcgtg ccgttctct taccgtcaa gcagctcgtc gccaccggca 300
 agcccagagag cttcggcggg cccttactcg tgcccagcta cc 342

<210> 13771
 <211> 293
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-A3

<400> 13771

caaaaaagta gtaataaatt aaaataataa ttcccgcccta aactatctga tagtttggcc 60
agtttaataa ccgaccataa gcaaccattg ggggcccctg gataaactga tactttgtat 120
tgtatttaca acaaaataat acgcttgata agcatctatg taattttact cggtaaatct 180
ggcttgattt gctgtttggc atctgtcgag cttaacatta tttttaatcc aaaggatgcc 240
aaacgtgtgg tgaatgaacg gtaaaaaacta tcagatagtt gaggcgggaa ttt 293

<210> 13772

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-A6

<400> 13772

caaacataga agcaggatca actgcgtgtg agcctcagcc aaaaaaagta aaaaataata 60
ataatgtttg tgcttcaatt tctgaattct gataaaaaat atatcgacta gtgcatatag 120
aagtactcac tcagtccata aataaaatta gttttatctt ttagttgatt tatacataat 180
taatgtattt gttttacgta catgtctaga tttattatcg tctatttgaa catagaaata 240
aaaatcgaaa gctaaaacga ctaatatattt gggataatat tttgggacgg gtgaagtatc 300
aaatatttac tgcaagattt gagtttgagg ggaggcgctg atgagaaacc gtccaaagtg 360
gaatagattt tactataatc tgacagtcaa cttaattcat ttcttcgagg gcatctgcac 420
gttagaaatt gatgtta 437

<210> 13773

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-A8

<400> 13773

cgctgcttca agaaaccacc gagagcctaa ccgcacaggc aggagagaga gcagggagcc 60
agggacagta gcgtggggcc ggggagcaac gatggagggg aaggaggagg acgtgcgctt 120
gggcgccaac aagttctcgg agcgtcagcc catcggcacg gcggcgagg gcgccggcgc 180

cggggacgac gacaaggact acaaggagcc cccgccggcg ccgctgttcg agccccggga 240
gctcaagtcc tggtccttct accgcgcggg catcgccgag ttcgtcgcca ccttctctct 300
cctctacatc accgtcctca ccgtcatggg cgtctccaag tccaccttca agtgcgccac 360
cgtcggcatc cagggcatcg cctggctcctt cggagggatg atcttcgcgc tcgtctact 419

<210> 13774
<211> 405
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-052-Q1-K1-A9

<400> 13774

gcgataaaat ccgccgcggc cgccctccact ccacctcgac gctcgcttct ccaaattcccc 60
gcttcgcctt gcgagggggc ggaggggagg tggtagtggg agggatataca ggagtgtctt 120
gcccattggag aaggcggggc aacaacgcca tggtatcggc ggcgggcgga agaaggcgcc 180
cgcgctgggg ctgcagaagc agaactcgtg gtcgccggac atcgagcgcg acgaggcgtg 240
ggagcgccgg cgagggggca tgcgcccgcg gggcacggcg ctgcgccgcg cccgcagcgt 300
cacggacgac gacctcgacg agctccgcgg ctgcatcgac ctgngcttcg gcttcgagcc 360
ggcgcacgcc gccgcgtgcg cgtgcgcctg cgccctgcgc gggag 405

<210> 13775
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-B1

<400> 13775

gttatgcccc cgtcatttct cgagatatgt gtggcagatt tgcctgcgac gtttattttc 60
atcggaacctg agtcttctcg gggtttagcag ctacctttgt atgttggtggc tcctgtgcg 120
agcgtgctgt gtcgtatcac ctggtttgtg agattagtgt ttgtcaaact tgcttggttt 180
gattggttgt gcgtttaaga gctgatagtt atatacatat attgctttgc tataccgccg 240
ctatatctat gtageccttg atgtatgtat ctggattctg aaatgcaaga atgaaccttg 300

agcagccctt tgtgttgccg atattttgtg gtgccgt

337

<210> 13776

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-B12

<400> 13776

cccactcgtc cgcacgaggt ggagctctta cacctggccg cagattttga ccataatgtg 60

atztatatta atagctgcat gtgtctagag agcaaagcaa aggaaattaa agtgcggtgt 120

ccctttttca atttttttac atgtgaaaga ctgtggatgc cgctgcattg tacagatagt 180

tgactcgttc gccagatgaa aaatgtataa caagagtcgt aggttcaaga tagggagaag 240

atgaaaccgt gatgattcat cattgttaaa aagatggact gtctgttga aaaataaagc 300

tgattaataa ccgcaataat gtcggtcgcg 330

<210> 13777

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-B3

<400> 13777

aagacaccgc cctctccttc gctagcggaa ccgccctccc ctgcgcgggg taggggtttc 60

ggaggtagac gcccgccatg gacgcgttcc ggaaacagct ggacgtgctc atgggcgcca 120

accgcaacgg cgacgtcgag gaggtgagcc gcaactacta cgaccgcgac gtctgccgcc 180

tcttcctcgc cggctctctgc ccacacgacc tctttcagct cacgaaaatg gatctcggtc 240

cttgttctaa gattcattct cttcaactgc ggaaagatta tgaagaagcg aaagcaaaag 300

gaacagaaaa ttttgataga gaactcgagg atatgataga aaggctcatt gtggagtgtg 360

acagggaaaa tcagagggcc ctaaaccggt tgcagatgat gatgccaatg ct 412

<210> 13778

<211> 143

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-B7

<400> 13778

gtctcggagg tgggagcgag cgatcatcgg cgtcgccggg tggatccaaa gcgcgcgacg 60
cgagaaaatg caaggcggat ccagcggcat cgtgtatggt ggcctcaagt accaggcgcg 120
gtgtatcgcc gacatacgcg cgg 143

<210> 13779

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-B8

<400> 13779

gtgtcggagg tgggagcgag cgtatcattt gcgtcgccgg gtggatccaa agggcgcgac 60
tcgagaaaat gcatggcgga tccagcggca tgggtgatgg tggcctcaag taccaaacgc 120
ggtgtatcgc cgacatacgc gcggaacgag gctcgaccac cttcctcgcc ggcaccctta 180
gcctcaagga cgagaacgaa gtgcacctga tccggttgtc tacggcggat agcgaactgg 240
actgccactg cctctgtcta ccaaaccaac gagattgtgg accttaaatg atgcccgttc 300
gatcacaggg tcatctccac agtgtacact tcttgcgagg gc 342

<210> 13780

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-C1

<400> 13780

cttggatcag aaacgccatc cgggacaccg tgaccaggtc cggcggcgaa gcgagatggt 60
gtcatccaag aaagtgtgcg tggtcggcgc tggcgtgtcg gggctggcgt gtgcccgcga 120
gctgctccgc gagggccacg acgtgacggt catggagcaa agcggcggcg tcggcgggca 180
gtggctgtac gacccgaggg cggacggcgg cgaccactc ggcgctggcg gcgcgcacag 240
cagcatgtac gccttc 256

<210> 13781

<211> 346
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-052-Q1-K1-C10

 <400> 13781

 cttgctctga tagcttgctc caggacgtac gtacgtacgt agatcgatcc atcgatcgct 60
 agctagctga cgaccatggc gtccctctcc tctgccgcca tcaccgcccc ttccttcacg 120
 gccgcgcccc ctcgcgcagt ggtcagcagg aggtccttca ccgtgcgtgc ctctctccgc 180
 aaggccactg ccaccgtcgt cgtggccggt gccgccagcg tcttgcttgc cggcggcggc 240
 gccatggccc aggaggtgct gctgggcgca ggcgacggcg ggctcgtctt cgagcccagc 300
 cagttcaccg tcaaggccgg cgacaccatc accttcaaga acaacg 346

<210> 13782
 <211> 344
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-052-Q1-K1-A2

 <400> 13782

 ctggctctgcc tccctaaaaa aaactgctcg gtttctggtc ctgctccgac gcgccgggat 60
 caggtgtgat atcttagccg tgctcggttg ctccgactgg tcttaggcaa agagggctcg 120
 catgctcgcc tgggtccagat ggttgaagca catgggcccc gactggtcgg gcctttacca 180
 gcacgagggc aacttcctgg cgcagcagcg gctcgccgta atctccacgt tgaccggcga 240
 ccagacgttg ttcagctaag accgcaccgt cttggcggtg gccaatggag agatggacaa 300
 ccaccttaac gttctgaagc agttcacttt cacacacaac ttca 344

<210> 13783
 <211> 420
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-052-Q1-K1-C11

 <400> 13783

 cccgttcctg catcgccggc gagatgggcg ccttcaccac gccgctcgcg tcggcggcgg 60

cgctgcttct gctgctgctc gcgccgctcg ccgcggcggc ggacagcatg tcgatcgtct 120
cctacggcga gcggagcgag gaggaggcgc ggccgatgta cgccgagtgg atggcggcgc 180
acggccggac ctacaacgcc gtcggcgagg aggagcgcag gttcgaggtg ttcagggaca 240
acctccgcta cgtcgacgcc cacaacgccg tcgtcgacgc gggcgttcac tccttcgcc 300
tcgggctcaa ccgcttcgcc gacctacca acgacgagta ccgcgccacc tacctcggcg 360
tcaggagcag gccgcagagg gagaggaggc tcggtgacag gtacctggcc ggcgacaacg 420

<210> 13784
<211> 296
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-051-Q1-K1-G6

<400> 13784
agaaaagaag gacgaaaaga agccggcgcc ggccaaaacg gagtacaagt ttgtgcccta 60
cccgtagccg ctgccgaacc ccgcgatgtg ccgagctgg ccgtggcagt gccgcctca 120
gcagcagtgc cagtgtgcc agaagcctcc gcctccgccg cccaagtcgc cgccgaagcc 180
gccgccgtgc acctgttcga gccacgccgn ctgtgtctgc ggcaagacac cgccggcggt 240
ctggccaccg atgccgnccn cgggtctggcc gcccccgagg ggcacctgca acgtcg 296

<210> 13785
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-G8

<400> 13785
gcgtgcgtgc gcatcactcg cggactcgcc tcgtgcgctt ccatttccac tccgaccgg 60
ccggcgaccc gccccccggt ccccgagcgc accgaggcct cgctcaccga catgtgggccc 120
ctcaacaacg ccaaggccgg cggaccctgc ctcacgccgc ggcaccagc gccgccttcc 180
cttgctgcgc cgtcgacggc atcggtctgg cggaggttct ggaggcgcag ccccggtgtg 240
gcgcccctgg tggcggtgcg cgcgtcgggg ggcacgaaga aggacggctc cgtcgggtggc 300
gaagccagcg gcgaggaagc cgatagcaag gcgtcgtctg ccgggcatga tgatgcatct 360

acccaacag ggggatcc

378

<210> 13786
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-G9

<400> 13786

cgccgatcac acattggact tgcactggtg cttgctcata attactagtt catcagcaaa 60
caacaaacaa tggcaccgag gctagcgtgc ctctagctc tggccatggc agccatcgtc 120
gtggcgccgt gcacggccca gaactcgccg caggactacg tggaccgcga caacgcggcg 180
cgcgccgacg tgggcgtcgg gccggtgtcc tgggacgaca ccgtggccgc gtacgcgcag 240
agctacgcgg cgcagcgcca gggcgactgc aagctgatcc actccggcgg gccctacggc 300
gagaacctct tctggggctc cgccggcgcc gactggtcgg cgtccgacgc cgtgggctcc 360
tgggtgtccg agaagcagta ctacgaccac gacaccaaca gctgcgcgga ggggc 415

<210> 13787
<211> 347
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-051-Q1-K1-H12

<400> 13787

cccgcgtccg atccaggtct ggtatcaggg aaatccatcg cttgctccnc atccctgatc 60
gtcagagggg aattttaag aacaccgatt cctacggcaa ctagaagcca tggagcacia 120
ggacgctgga agccaagccc gcaccggacc catgctatgc atgaataact gccgatgctt 180
caatcgctca gcgaccatga acatgagctc caagtgccac aaggagatga taacgaacca 240
ggatcacgcc aagctggctg cctcctctat cgacagcctc gtgaacggca tcgactccgt 300
catggagccg gttgttgctg gcagcaacac ggtagtaact gttgccc 347

<210> 13788
<211> 386
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-H2

<400> 13788

cacgcgtccg aagtaatcgt cacagtggta gatttgcgct gttacacatc actgcactgc 60
acaggcgag atccacatgg gctccatcgt tgccgacgcc gatcgccggc cacacgccgt 120
gtgctgcccg ttcccagcgc agggccacgt gacgccgatg ctgaagctag ccaaggttct 180
ccacagccga ggcttccaca tcaccttcgt caactcggag ttcaaccacc gccgcttgct 240
ccgctcccgc ggcgccagcg cgcttgacgg cctcccggac ttacgcttcg tcgccatccc 300
ggagggctctg cccccgtgcg acgccgacgc caccaggac gtgccgtcgc tctgccgcgc 360
caccatggag aactgcctcc cgcat 386

<210> 13789

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-H3

<400> 13789

caccagccga gttcgcagcg gcactccatg tccagcagtc tcttcggctc ttcgttgggg 60
gtgctgggac accggaaatt acctcgggga ttgcgttctt gatctaaacc cggcatgaag 120
tgctgctcac agcggttctg gctactgctc ctgctgctgc tggcatcgtc gtcggtactg 180
tccgtcgagg ttgccgcgca gcagacttgc cctgccgacc tcgacagcca atgcgacggt 240
ggcgccctg atgactggga gggggaatag ttccccggcg ttccgaaaat cacgtctgaa 300
ggcgcaaca gcaagaaccc tggtgcttat aagtgggata aactgagga aggcattctc 360
ggaaagaaga tgaaggactg gatgcgcttc agtgctgcgt tctggcacac gttccgt 417

<210> 13790

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-H6

<400> 13790

ctgcactcca gcactgaaca cttgattgat tcagtaggta gctagctagc tgaagcacia 60
 tggatcctac caagttccgt ccgccagta gccacgacac gacgggtgacg acgacgaacg 120
 ctggcgctcc tgtgtggaac gacaacgagg cgctgactgt ggggcctcgc ggtcgcatcc 180
 tgctggagga ctaccacctg atcgagaagg tggcgcaactt cgcgcgaggag cgcaccccg 240
 agcgcggtgt gcacgcgcgc ggggacttcg ccaagggctt cttcgagtgc gcccacgacg 300
 tgacgtcgct gacgtgcgcc gacttgctgc gcgcgctcgg cgtgcggacg cccgtgatcg 360
 tgcgcttctt gacggggatc cagagcgga ggtccacgga gacgatccgc gacccgcgcg 420
 gattcgccgt ga 432

<210> 13791
 <211> 422
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-051-Q1-K1-H7
 <400> 13791

cttagaacgg ggagacgtct aactgattta gtaaaagtgg gcagcatcgt gatgccaaact 60
 tccccccctg ccatggtttt attggctctc tgcttgtttc tcgttttctt tgggagtcag 120
 cttctctgtt ttatgtggtc gcacacggcc ttattttagt tattacacca cagaagctgg 180
 ctgaccccca ctgacggaga ggtgattgat gcaagcattg tgtatgatcc ttggacaagg 240
 gaatcgcggg ggtttggttt tgtcaccatg gctgctacta aggaggcaga tcaactgcatc 300
 aaatatctgg attgttctgt gttgcaagta ctctacacag aacattttat tgttttgtct 360
 tcaccaccga gaatccgaga tcgctccca tagcctncac atccataagg tcctgcttga 420
 ct 422

<210> 13792
 <211> 412
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-051-Q1-K1-H9
 <400> 13792

gttctcatga tccatattgt tatggatata ttgagatca tgatttctat gattaattat 60

cttttatatg tcatcatcat aatgttaatt tatggaatta aaatgatatg gaaaatgcct 120
 ataattttta cacacaaaaa acctaattgtt aggcattttt ctgtcagtgg ttttgctgct 180
 gtgctaaagc ctgatccatt tgatggtaaa aacttcttga tttggaaagc taaaatggta 240
 ttgtggctta ctgtaatgtc ttgttttcat gccgctgagg gcaagcctgt caacttacct 300
 cctgaggatg aggctaagtt taaggctgaa gacaacctct ttcgaggagc agtaattagc 360
 gcacttgata caaaattcca gaaaagctat atcatccttc ctacaggga ag 412

<210> 13793
 <211> 421
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-052-Q1-K1-A1
 <400> 13793

ctcgtctccc tccccaaaaa aaactgctcg gttgctgctc ctgctccgcc gcgccggcat 60
 catgtgtggc atcttagccg tgctcggttg ctccgactgg tctcaggcaa agagggctcg 120
 catcctcgcc tgctccagaa gggtgaagca caggggcccc gactggtcgg gcctctacca 180
 gcacgagggc aacttcctgg cgcagcagcg gctcgccgctc gtctccccgc tgtccggcga 240
 ccagccgctg ttcaacgagg accgcaccgt cgtgggtggtg gccaatggag agatctacaa 300
 ccacaagaac gttcggaagc agttcacgg cacacacaac ttcagcacgg gcagtgactg 360
 ccaggtcatc attccccctgt acgagaagta cggcgagaac ttcgtgggac atgctgacgg 420
 g 421

<210> 13794
 <211> 355
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-052-Q1-K1-A10
 <400> 13794

gcggcgcatc ccatcttgat cggctgcac tacctctaag actcgttatc cagataaccg 60
 gttggcttta acaaatggca gacgagactt ggaaaaatga gagtatactg gagtgctaca 120
 ctcataaata atgcgggtca ccaactccat gttatctgaa ctttccacag gaattcccc 180

tatctatagc tgccgatgcc gtactcgtgg tctatcggac attgagagcg actaggcgta 240
 caagctccac tactagtgca tacaccgca tggcacagtc taatcagagc ccgaatcgta 300
 cttagcgact aactcttaga gctcaggggt tgaatctacc tgcgcttatg gttct 355

<210> 13795
 <211> 386
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-052-Q1-K1-A11
 <400> 13795

ccacgcgggc gaagccagaa tcgctctcga gatttaatgt agagagacgg gggacgacga 60
 cagcgtttgg gcccgctaac tgcatecgtc gacggtagct gacgtcactc ataccctggg 120
 aattttcaag cttagatggg ggtcatctg cctgatccga gctctgctgc tttttcttag 180
 gccgccgac tgtatcacia ctatcacagc acctacgtgt tcacaagtct acgcatttag 240
 actaccaata cactacattg gactatgcac aactaggacg catccatcaa accggcacat 300
 ggatccatac tactcgaact atagaaacca cgtgccttac ccatactatg ctctgcccag 360
 atggcaaadc ccatccgggc atgcac 386

<210> 13796
 <211> 437
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-051-Q1-K1-G4
 <400> 13796

cacagcgatc cacacaagca cttcgacgtc gtacggggcg tgcacacaga cacaccgagc 60
 gttggcacca atgggttact accaggaggt ggactactgc tcggaggagg tgaggctcgg 120
 ggacccggac ggcttcggcc gccacggagg cggcgttcag cagcacgtcg tcaaggagaa 180
 gttcgaggag gtcgacacgg tctgacacgc cggctccaac caccaccagc accaccatgg 240
 tgaccacggc ggccacggct tcgtggtgcg cgagaccagg gtcgaggagg acatcaacac 300
 ctgcaccggc gaggtccact agcgcattga gagcttcctc gccagggcta actgagccgc 360
 ccggtggctg gcatgcactc ccgttcgagc ctgactgcgt gccttatgta tgtctgccgg 420

tgactggttg tgcaagg

437

<210> 13797

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-A12

<400> 13797

ctctgtttcc ttgctgtgca ctacacattc caaccataac ttctcttggt ctcgttctcg 60
tccttgcgtg aaccgcggac caagaagaag cgggcgttgg ggactttggg atttgaaagc 120
ctacatatta ttatttctct aattcaggag tggctctgtc tgggagggaa gggatctgtg 180
gggctgcagc cccatccggg ctgagggttg aaggatccgg ccctttggtg tgctcccca 240
atcgggttat tatttctcta attcgggcgt ggtttgtgcc gggaggggaag gaatccgtgg 300
ggctacagcc ccatccgggc tgagggttga aggaaccggc cctttggtgc gctcccca 360
atcgaggaaa aaggggcac ggatgct 387

<210> 13798

<211> 419

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-051-Q1-K1-F12

<400> 13798

ccgatcacgg taactggatc cggcgccttg ggttcggat aaattggcct tcaaccgtac 60
ttcgcgggtg gttcttcccg gggcttgggg cctggccctt ttttgaaacc ttcttcccg 120
gttccaacca ccttcagaga ggattaaaag aattagtgc ccaaattaaa gggaatactg 180
ggctggaatg gcagcaaaga tctattgaat tcagttccat tatacataga catcagtcga 240
taaaatcatc tttggcttga acgtatgcct gcattggatg aagcaaatta tttggtgaag 300
agagctgctt ctacacaggc tgcagtttca tctgcaaatt ctgctcctgc agtcacttct 360
ggaggccac ttaagcttgc aaatggcgta tcanagccac caccagctcc tttagctga 419

<210> 13799

<211> 323
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-051-Q1-K1-F2

 <400> 13799

 cactacacta caccacaccc acccgactac gatcacacac gcagaagatc gagttcggtc 60
 gatcgtgacc gtgacgcagg aagctataag ctagccaaga caggaataat aatggcggcg 120
 tcgacgggtgg cgagcctctc tgtcccgggtg acgacgacga ccttcgcggc ggcgggcgga 180
 gcggggcgcg cgcacgtgct gatcgtcgtc ccgaggaggg cgggcgctgg gcgcgtctgg 240
 ttccccgcgg cggcgcgccg cggcgggcggc agcggggcgt tggtcgccgt gcggtccagc 300
 gggccggcca cgccgncgga gat 323

<210> 13800
 <211> 392
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-051-Q1-K1-F4

 <400> 13800

 cccacgcgtc cgcaccgatt agcttgcttg ccctagcaga tcgaagccgt agccctagcc 60
 gaggagcgcc catggccgct gcgatcgtgg cctgaggcgg cggggctctt cccatgggggt 120
 gaggggatgg accctagcct gaaggaggag gtgatgaagg cggaggagga ggcgaggtcc 180
 gcggcgggcg cgcggtgccg ggtggtgcgg atcatcgtgc acgacgagga cgccaccgac 240
 tcgtcttcca gcgacgacga gggagaggag gcgnggagc gcgccgcggc gcacccggcc 300
 gcggcgccgg cggggagcgt gaagcgcagc cgcgtgctgc tccagtccgc tgggtgegg 360
 gcggaggagg acggcgaggg ggccaggttc ac 392

<210> 13801
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-051-Q1-K1-F5

<400> 13801

agctcgcccc gaactcgaac aagacagtca aggcgtcgat gctggacgag gtgatcgact 60

acctgaagca gctgcaggcg caggtgcagc tgatgagccg gatgggaagc atgatgatgc 120

ccatggcgat gccgcagctc cagatgtcga tgatggccca gatggcacag atggcgcaga 180

tggcgcgat ggcccagatg aacatgggct cctcggcca gccgggctac gcaggcctca 240

cgccgccccat gatgcacccg ccccccttcg tccccgtgtc ctgggacacc accgncaccg 300

tcaccacctt cctcgccccg caggccggca gcggcacggt gccagcggac gccttctacg 360

ccttcctagc ttgccaagcg cagcagaacg ggcagcagca accgggtagc atggaggcgt 420

aca 423

<210> 13802

<211> 76

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-F6

<400> 13802

agcttgagca cgctcagct tggttagttc agctcacaag gcggtccgcc acgtggcgga 60

ggacctgcgg tatgag 76

<210> 13803

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-F7

<400> 13803

cgagtctcca tccattctct ccgctcatcc gcagctctct agtctccagc tctagctagc 60

cttagcctcg tccaaggagc gaaggggcca ccatgagcgt ggtgatcctg gacggctcca 120

cgggtgcgcgg ctctcgtggcg gacgaggcgg ctttcgcgcg cagcctggac gcgcgcttcg 180

ccgcgctgga cgccaacggc gacggcgtgc tgccccgcgc cgagctccgg cgcgcgctcg 240

agtccttcgg tctgctcgac ggcgggggct tcgggtccgt ccagccggcg ccgctccccg 300

ccgaggtcgc cgcgctctac gacgccgtct tcgagcagtt cgacgccgac cacagcggcg 360

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-051-Q1-K1-G12

 <400> 13806

 cacaaaccct gctaacgatg ccacacgttc attggagacc acctggtggc attattgtta 60
 aaggcctgta attaacgcca accttaccct ggcttacttt gggcaaaagt cccggaattg 120
 gccgaccggt taacttgaaa aaaggaactt gaggagtgtc tgaatgatgg ccacaggtct 180
 atgtggcagc agtggtgagc tcattggaag cctttctttg ctctgaggac ggtccagggg 240
 ttctgaaagc cgtccgtgca gctggtgagc ctctcgctga tgattggagc tgtctcaagt 300
 ccacggttcg tacttttgag ggcgaatgtg ggctggtggc gcagtatggg atgaagcaca 360
 tgcggtcctt cgcaaacatc tgcaacgctg gca 393

<210> 13807
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-051-Q1-K1-E8

 <400> 13807

 gcgccttcct gcccctatct agctagcttt cccgatectg catcgcgggc gagaggggag 60
 cctacaccac gccgctcgcg tcggcgggcg cgctgcttct gctgctgctc gcgccgctcg 120
 ccgcggcggc ggacagcatg tcgatcgtct cctacggcga gcggagcgag gaggaggcgc 180
 ggcggatgta cgccgagtgg atggcgggcg acggccggac ctacaacgcc gtcggcgagg 240
 aggagcgag gttcgagggtg ttcagggaca acctccgcta cgtcgacgcc cacaacgccg 300
 tcgtcgacgc gggcgtaac tccttacggc tcgggctcaa ccgcttcgcc gacctacca 360
 acgacgagta ccgcgccacc tacctcgggc tcaggagcag gccgcagagg gagaggaggc 420
 tcggtgaca 429

<210> 13808
 <211> 294
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-051-Q1-K1-G3

<400> 13808
 agaaattcgt gtctcttgtc caatccttgc aatccagcag caggtaaacg tgagttgttt 60
 aagtacggaa gagatagggtc ctgttcagcc agatgattac aagcattcgc agggcttgtt 120
 agatttgagg ttcttagtct aaaatcacat tgaataggga gatgaacaca tgtgatgctg 180
 attatgtgtt atctacattt gtctctatgg ctgtaagatg gccatatatt tctctgaaag 240
 tgatcttgat tgatcatttg tgctatgtat tattataatg acatgggtca tgta 294

<210> 13809
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-D3

<400> 13809
 cctgagttcc tcaccggcga ggcgagctcg gaaaaaatcg catggccttg cagcacgcag 60
 gtccagctag ctctacgctg accaccggcc gtcatggcag gagcgccgca gccgtcctcc 120
 gtcggccacc ggcgggttct aggagccgtt tgagggcgca cgcgagaaa cccgacgccg 180
 gatcccgtag cgcgggagcc gagaccgcga cgctcgtctc atcctccgcg tcggagaacg 240
 ccgtcctcaa ggccgcctgg tacgggtccg agctcctcgg catcgccgcy tcgttctctc 300
 ggcccgcgcc gtcgtcgctt caggaggggg atgctggcgg tggcggtgac gcagagggcg 360
 aagcggcgcc ggtggcgggg gccctggacc tggaccacgc gggagtg 407

<210> 13810
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-D4

<400> 13810
 gcggatagag cagcagaggc agcgacacga tcgagagcg acgcacgtaa gcacgtggtc 60
 ggaagctcaa gttagaagaa gcaccagtgc ctgatcgatg gcggcccagg ctctcctctc 120
 cggccggcag ctgctgggcc gcccctgca gtcggccgct tctaggtcgt cggcgaggaa 180
 ggcgcccttc gtcgtcaggg ccagctgcag ccctccagcc aagcaaggtg ccgacaggca 240

gctgtggttc gcgtgcaagc agtccctctc ctacctgat ggcacgctgc ccggcgacta 300
 tggcttcgac ccgctgggcc tctcggaccc ggagggcacc gggggcttca tcgagcccaa 360
 gtggctggcc tacggcgagg tgatcaacgg ccgatacgcc atgctgggcg cggtgggcg 420
 cat 423

<210> 13811
 <211> 368
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-051-Q1-K1-D5
 <400> 13811

cagcacggca gtgctccgtt acctcctcgt ggttcgcccc ggttgtctac tctggagct 60
 cccccggcg gacaccggcc gagctctcta gcgcacggcg gccggagaag acgaggaggg 120
 ggggacgac tcatacatcg gaccggcggtg cctgtgtcgt ctgctgatcg cgttgttctc 180
 tttactcttt ctgtccctcc tttagttgaa cacttcaatc agtatattaa gatttctgat 240
 tgggcggcgg atcgccatgg gattcggaat gcggaataat aacaacgggg cgagctgctc 300
 gtcgtggcgc ctggaccggg cggcgccgct gctgccgagc cacggcagca gcgggggccg 360
 ctagggtg 368

<210> 13812
 <211> 324
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-051-Q1-K1-D6
 <400> 13812

ggcaccaacc cagctcggcg ccatcgtcga cccttacctt gtttgctga gagcgatggt 60
 gacggagctg accgcgggcg aactgctcgc gtacaaggcg accgaccgt acaagcccat 120
 ctacatcttc ttatggagca aggtctacga cgtgacctgc ggccgtggct tctacggccc 180
 cggcggcgcc tacgccgtct tctcgtgccg cgaggccagc cgtgcactaa gcaagatgat 240
 caaggacgag gtcgacgtgt cctgtgatat gtccgagctc acacaacagg agctggtcgt 300
 tctcgtcgac tgggagacca agtt 324

<210> 13813
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-D7

<400> 13813

cctgaactga tccttggggtt caacgccttc ttgcctaagg gctatgcgat caagctagaa 60
 gaagagaaga aacctgtcga ttttgtggaa gctatcaatt tcgtgaacaa gataaagaat 120
 cggtttcagc atgatgaaca agtttacaag gcattcttgg acatcctcaa catgtaccgc 180
 aaggataata agtctatcca agatgtttac catgagggtg ctatgctgtt caaagaccat 240
 aaagatttgc ttgaagagtt ccagcacttc ctgcctgata cttcagtggc tccacaagca 300
 gtggcctcaa aggggtgggtt ggttaagcgg gaggacagga gctctttagt gcctcctgca 360
 aataagatcc ttcacaatga taagagggac agagtttacc tgtcacatgc tgaccgtga 419

<210> 13814
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-D8

<400> 13814

cctgaactga tccttggggtt caacgcttta ttgcctaagg gctatgcgat caggctggga 60
 gaagagaata aacgtggcga ttttgcgcaa gctatcaatt tcctgaacat gatatccaat 120
 cggcttcagc atgatgaaca agttcacaag gcattcttgg acattctgaa catgtaccgc 180
 acggataata agtgtatcca agacgtttac catgacgatg ctatgctgtt caaagaccat 240
 aaagatctgc ttgaacagtt ccagcactta ctgcctgata ctccagtggg tccacaagca 300
 gttgtctcaa tgggtgggtt ggttcaacag gaggacacga gcgttataga gcctcctgca 360
 gctaagctcc ttcacagtga taacaaggac atagtttacc tgtcacatgc tgaccgcat 420
 ttt 423

<210> 13815
 <211> 395

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-051-Q1-K1-D9

 <400> 13815

 ggcacaggca gcagctaaca tccctcactc tcggtacctg acctgaccac gagagcaaca 60
 tgggcgagg acacgacatg cacgggcagc actacggcca caacggcggc gtgaagggct 120
 tcgtgtccaa cctcgtccac ggcgggggcg gccatggcca tggaagcggc tacggccatg 180
 gccatggaaa cggtacggc catgggaatg gcggctacgg cggcggccac gggtagcctc 240
 ctcccgcgc cgccggcgcg taccctcctc cgcacggcg gtaccctcac ccgcacggcg 300
 gccacgggta ccctcctccc gccacctacc ccgcgcactc ggcgactac gggcacacgg 360
 ggtcgtacca caccagccac aacagctacg gcggc 395

<210> 13816
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-051-Q1-K1-E1

 <400> 13816

 cagattatga tttctgtgca cttttctttc taacacactg gctattccat cagggtgggt 60
 tactagaacc aaccatggga ttttaccgac ccaatgcctt tcctccacta cttaacaaat 120
 ttgactcaac atgctcaaca agttcacaac gcattattta acattcttta tatgcaccgc 180
 tcgcatactt aacctatcca ctaattgtat cctaagtctc ctatactatt gaaacaccat 240
 tcttaattgc ttcaaaactt ccaatgattg atgcctgata cttcagtgtc tccacaatca 300
 tcaacctcta ctggttcttt ggttacacgc taagacacta gatctttaac gccttctgca 360
 aataacatac tttacaatga tccgacgcac atattctacc tgtcacattc 410

<210> 13817
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-051-Q1-K1-E10

<400> 13817

ggaaaagatc ggctacagac aggagaggct ctgtctccgc caggcggcgg ccaccaggtc 60
acccttgcca gctaccctcc ggggaagac ttctacgagc accctcgccc cccatggccg 120
gctcagcttc agccacacca cgtegetgca gacggcgccc gggcaccgcg ggctccgagc 180
agggtgggcg gtgcgcgtgc tcccgtgac ggaggagaac gtggagaagg tgctggacga 240
ggtgcgcccg agcctgatgg cggacggcgg caacgtggcg ctgcacgaga tcgacggcct 300
cgtcgtcgtg ctcaagctgc agggcgctg cggctcctgc cccagctcca ccatgacgct 360
caagatgggc atcgagacgc gcctncgca caagatcccc gacatcctcg 410

<210> 13818

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-E3

<400> 13818

gtcaaagata taatttcaga tctaaaagat ggccaggctt ccttagtttg tgatggtgtg 60
gggtttcatg taagatgtgc atgtcatata ctaaatttag ttgctagaga tgggctggct 120
gtaattttct aaacaattga cacgatcaaa gttctcgtac tagctgagaa tgtatcacca 180
ttgcagtgga aggaacttat gaagggtgct aacgagtcag aactagatac atggaggggc 240
atctcactag atggttaccc tgatggagtt caactgattt aatgctggac gatgccttgt 300
actacaagga tgcttttgca gagcttaagt attcacatcg tgatatgtat gtcgaaactg 360
atcgatcttc agattagtgg gacatggcac ttgaaatc 398

<210> 13819

<211> 186

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-E4

<400> 13819

cactcattcg ttgtacgata taatttcaca actaatatat tttcaccctt ctttcatttc 60
taatgggggt gggttttatg ccacatcggc atgatatata ctaaattctca cttgctacac 120

taatcctccc cttaacttcg taatcaacag actaaataac agctcttaca ccatctgata 180
ctagat 186

<210> 13820
<211> 415
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-051-Q1-K1-E5

<400> 13820

cggattagtt gtactgtaca ttgttctgc gaagacactg ggtcgtccgg gtcaatcggc 60
agcttgaacc agccatggcg ggcacccggc cgaacgccgc ggccgctg ctcgccaagc 120
tcgacgccac cgccacgccg ccggcgaagc gcaacaagta ccccttcttc tgcgccgtgc 180
tcgcatccat gacctccgtg ctcatgggct acaacgtcgc ggtgacgagc ggccgcgaga 240
tcttcatggc ggaggacctc gggatgagcg acgcgcagat cgaggtgctc tcgggggtca 300
tcaacatata ctcgctcgtc ggccgctgc tggcaggctg gacctccgac cgtctcggcc 360
ggcgctcac catcgtcttc gccaaagcct tcttctcgt cgcccgctc gccat 415

<210> 13821
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-E6

<400> 13821

gagaaggaat gcacagttga caatgcctag agctccgaat ctggcagtct tgctgcactg 60
cgcatgctat tatcgcgaga actgctcaga tcaactctgc ttctttgggt tgctttctat 120
gcaaattcct ttgcttatta cgggttagta ttgctgacat cgcagttgag tgatgcaaat 180
aaaagtgtg catctggtgt gtcttttgggt ctgcgccata tggaaatcaa tctttacaaa 240
gacactttca tcaactagttt agcagaaatc ccacgtttat tttgtctgc tgatcttggt 300
gattggtttg gtcgaaaagc ttcgatgtgg tctatgatgt tcgcatgctg tgctttcctt 360
ggaccacttg tacttcaaca gactgagttg ttgactacta ttcttctatt tgggtgcccg 420
gcatgtgcc 429

<210> 13822
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-D2

<400> 13822

ctctcacccct ctctaataatt gttcacgtgg gcccaacttcc aattattagt agatgaagaa 60
tggataggag gtgaaaagta ggtatagaaa atgatatttt atggtttag taggggtatag 120
gggaaggatt tagggggaaa cgctgtacag agtggagata taggggggaa gagaacgctg 180
acgtggcacg tgagtgggat ataggagag aaatttaggg gtaaccgctg aagacagtct 240
aaaggctcat ctgtgtgtat tctgtcatgt catgtcatgt catgtgtgtt ggtatatgat 300
ggcttggtcg tcgtaatgta atgtgtggac aataaatatg cggggttgca cctcaacgta 360
acttactagt acttgctatt gcgatatata tgtactttat tataataat 409

<210> 13823
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-B6

<400> 13823

gctggcccca atcgttacct caccgcccca ttgatggctg ggaagaagga tccgaacgac 60
ccatcgatcg agtcaagcac caccaccaca accaccactt ctataagcat gggcgaccaa 120
agcgttgcca gtatagactc ggatgggctg acgcctagcg ccgtcttctc gcagatcatg 180
aaccccaagg ggcggtgagg taaagctggc cccaatcggt accttgacgg tgtaatttat 240
tcattcagaa tatttcattt ctttaattgt ctctcaagtt aaggcttaag aaccagaagt 300
gtgaggattg tttcgtaacta gatattctgc cttgccttgt actacttgct tcaccgagta 360
ttgtaatgac tatacatctg ttggcttgta ttgtaccgct gctattgacc cagccagt 418

<210> 13824
<211> 355
<212> DNA
<213> Zea mays